

*W.A. Watkins*  
CATALOGUE 6 NUMBER SIX

# JULIUS BLUM

AND COMPANY, INC.

STOCK ELEMENTS FOR THE  
FABRICATION AND ASSEMBLY  
OF ORNAMENTAL METAL WORK

532-540 WEST 22<sup>ND</sup> STREET, NEW YORK 11, N.Y. WATKINS 9-7042







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# CATALOG No. 6

(ISSUE 1950)

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## JULIUS BLUM & CO., Inc.

OFFICES and WAREHOUSE

532-540 WEST 22nd STREET

NEW YORK 11, N. Y.

Telephone: WAtkins 9-7042

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### General Information

Our line of stock elements has been built up over a period of 40 years with the purpose of making available to the architect and metal fabricator materials which will facilitate the design and fabrication of artistic work at commercial prices.

Every item described in this catalog is carried in stock in substantial quantities and shipment is usually made within 24 hours after receipt of order.

We are adding new materials to our stock constantly and solicit inquiries for articles not shown in our catalog.

All weights and dimensions shown are approximate. They have been ascertained with care, but cannot be guaranteed.



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# RAILINGS

ALL rolled and extruded Shapes, Bars and Tubes in this section are carried in stock in random lengths of about 20 feet, except as noted. With the exception of Hot Rolled Steel Handrails, they can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

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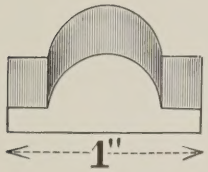
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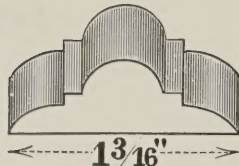
# ROLLED STEEL HANDRAILS

No. 4403



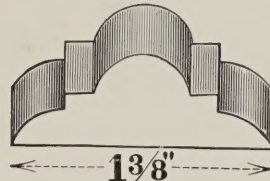
.82 lb.

No. 4411



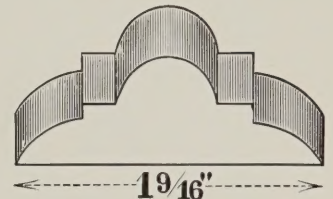
1.09 lb.

No. 4412



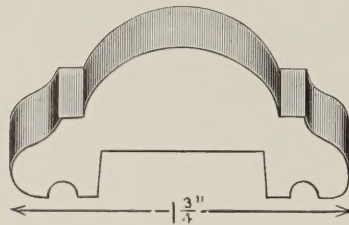
1.31 lb.

No. 4413



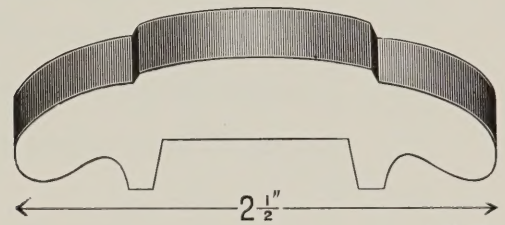
1.65 lb.

No. 4446



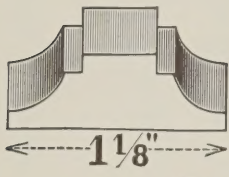
2.18 lb.

No. 4440



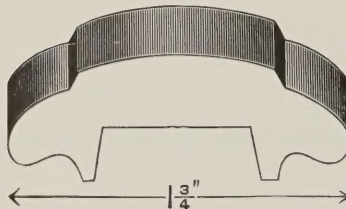
3.52 lb.

No. 4474



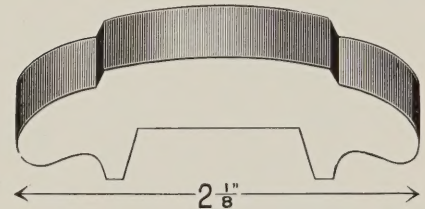
.96 lb.

No. 4420



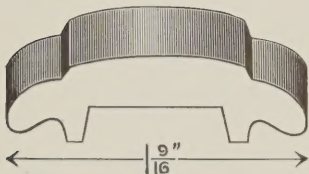
2.15 lb.

No. 4430



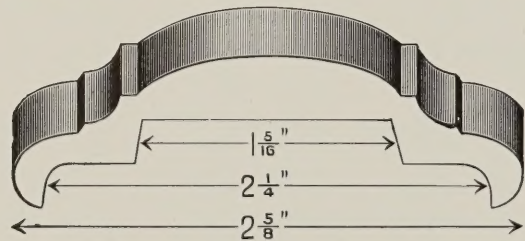
2.65 lb.

No. 4400



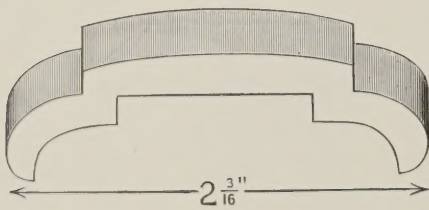
1.02 lb.

No. 4439



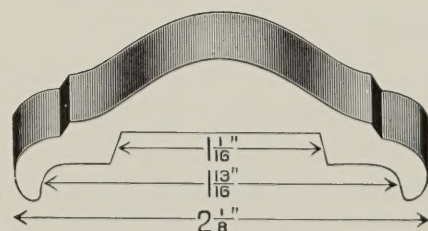
2.12 lb.

No. 4447



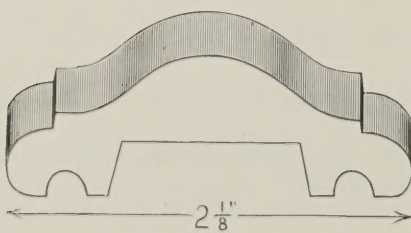
1.40 lb.

No. 4438



1.71 lb.

No. 4448

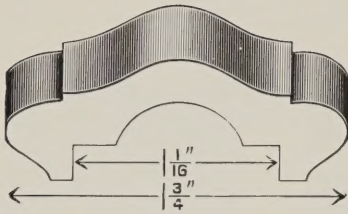


2.46 lb.



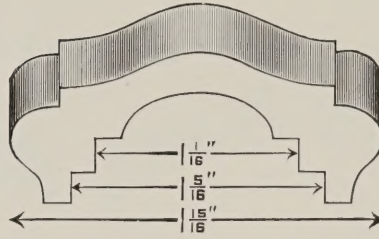
# ROLLED STEEL HANDRAILS

No. 4429



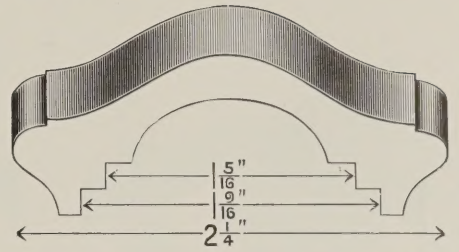
1.49 lb.

No. 4428



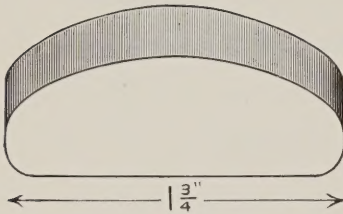
1.86 lb.

No. 4441



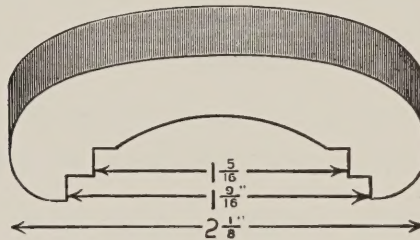
1.94 lb.

No. 4415



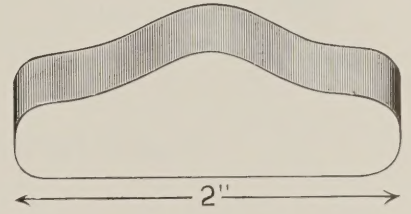
3.04 lb.

No. 4435



2.63 lb.

No. 4416

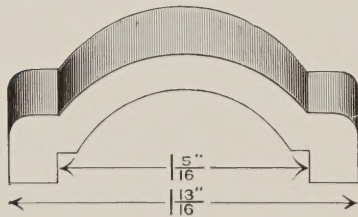


3.15 lb.

Handrails above are rolled from especially soft steel to facilitate bending.

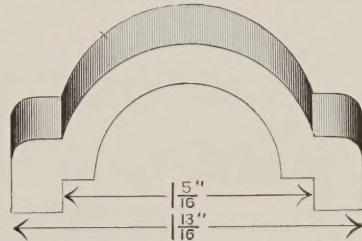
Handrails below are made of soft cold rolled steel having a smooth bright surface.

No. 4426



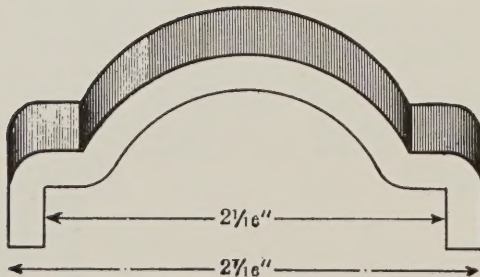
1.35 lb.

No. 4427



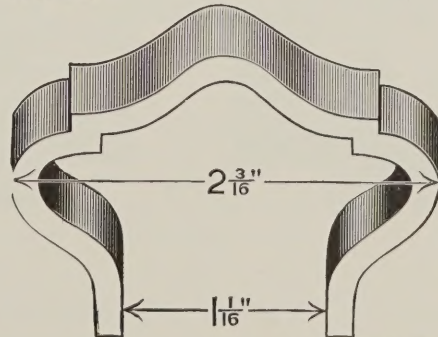
1.43 lb.

No. 4425



2.01 lb.

No. 4434



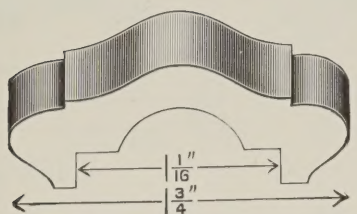
1.76 lb.



# ROLLED STEEL HANDRAILS WITH MATCHED FITTINGS

These Handrails are rolled from especially soft steel to facilitate bending.

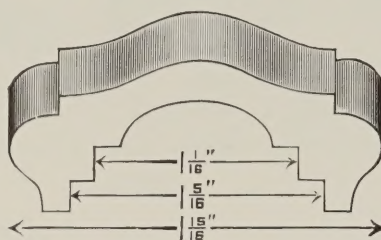
No. 4429



1.49 lb.

Fits over 1" flat bar  
or channel

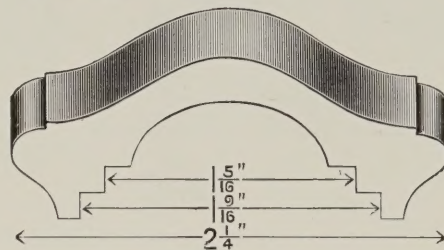
No. 4428



1.86 lb.

Fits over 1" or 1 1/4" flat  
bar or channel

No. 4441

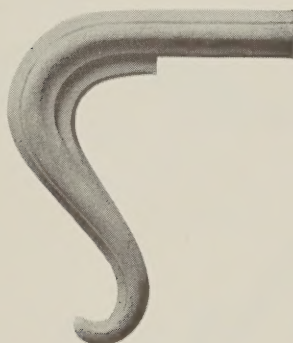


1.94 lb.

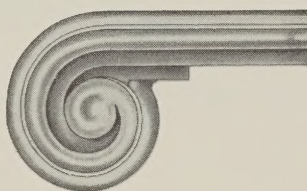
Fits over 1 1/4" or 1 1/2" flat  
bar or channel

Handrail Fittings. Match the profiles of Handrails No. 4428, 4429 and 4441.

STRAIGHT LAMB'S TONGUE



VOLUTE

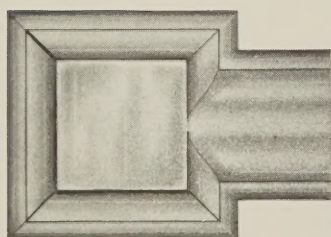


BEVEL  
LAMB'S TONGUE

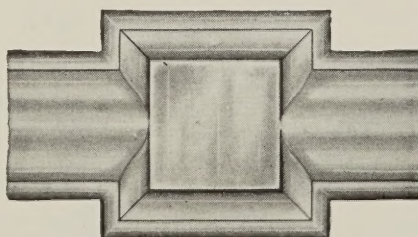


Handrail Fittings are made of malleable iron and can  
be welded to the end of the handrail.

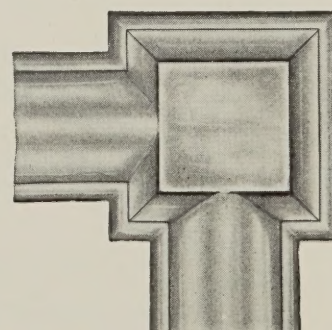
TERMINAL



CENTER PIECE "T"



CORNER PIECE "L"



WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING.

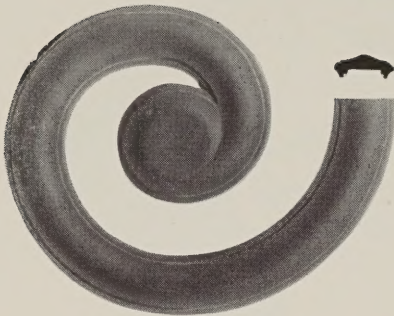


# HANDRAIL FITTINGS

## FOR ROLLED STEEL HANDRAILS

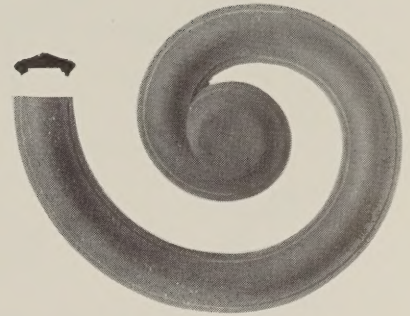
No. 4428, 4429 AND 4441

### MOULDED LATERAL SCROLL



Left Hand

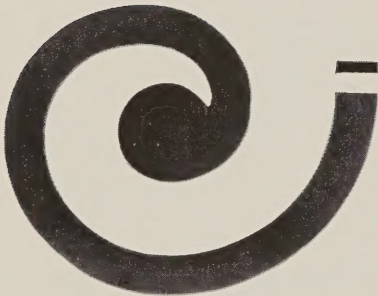
Moulded Lateral Scrolls are carried in stock to match the profile of Handrails 4428, 4429 and 4441. They are made of malleable iron, may be bent to conform to required bevel and welded to the end of handrail.



Right Hand

Full size details furnished upon request.

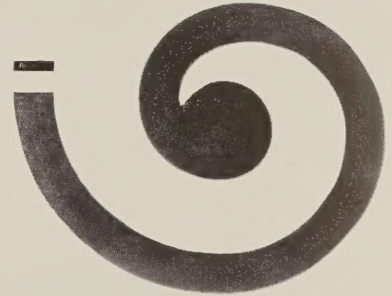
### FLAT BAR LATERAL SCROLL



Fit the underside of Moulded Lateral Scrolls. Three sizes:

- 1" x 3/8" Flat
- 1 1/4" x 3/8" Flat
- 1 1/2" x 3/8" Flat

Flat Bar Lateral Scrolls are made of rolled steel and will not break. They can be punched, bent and welded.

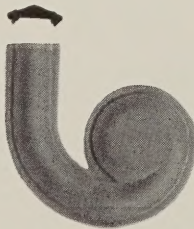


### JUNIOR LATERAL SCROLL

Furnished for Handrail No. 4429 only. Malleable iron.



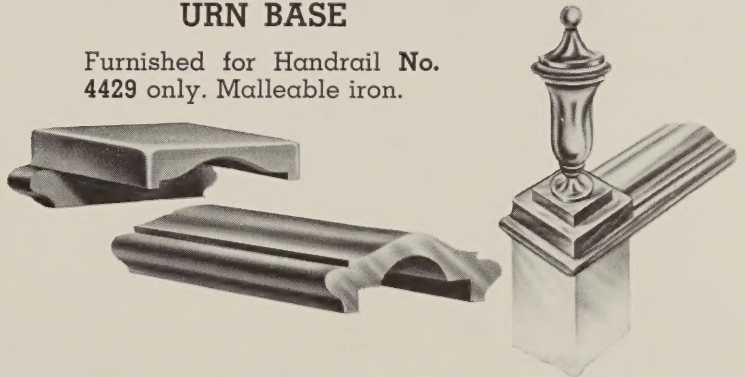
Left Hand



Right Hand

### URN BASE

Furnished for Handrail No. 4429 only. Malleable iron.



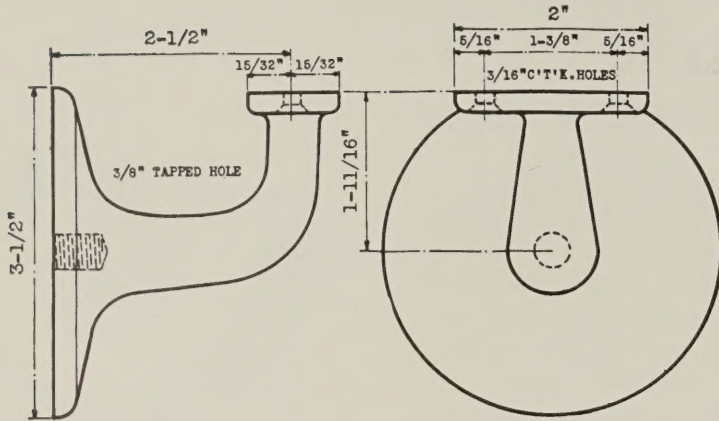
The Urn Base terminates the handrail and also provides a flat base for Urn or Ball Finial. It may be welded to the handrail or merely held in place by the stud which connects the Finial to the Post.

Full size details of Lateral Scrolls furnished upon request.

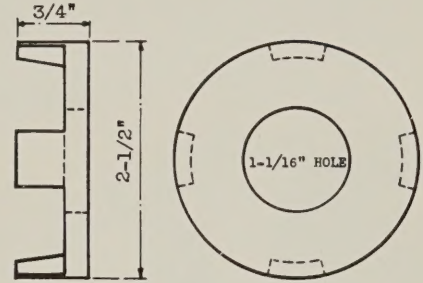
WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING



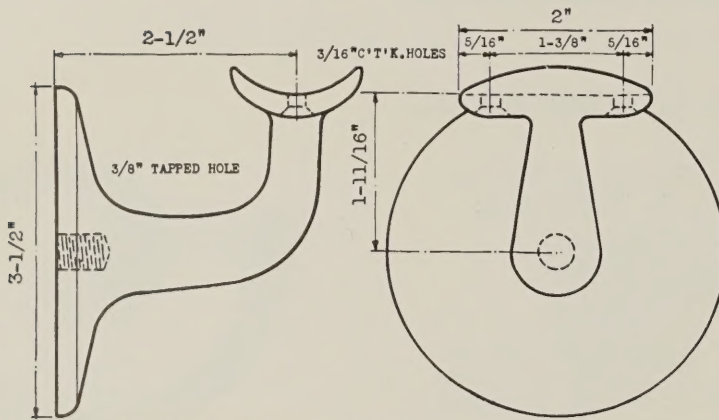
# HANDRAIL WALL BRACKETS



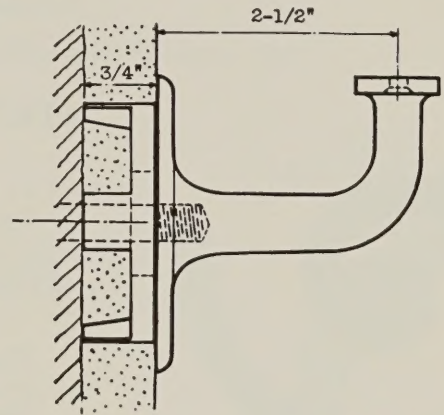
**FLAT TOP MEMBER**  
No. 373 Cast Iron – No. 377 Malleable Iron



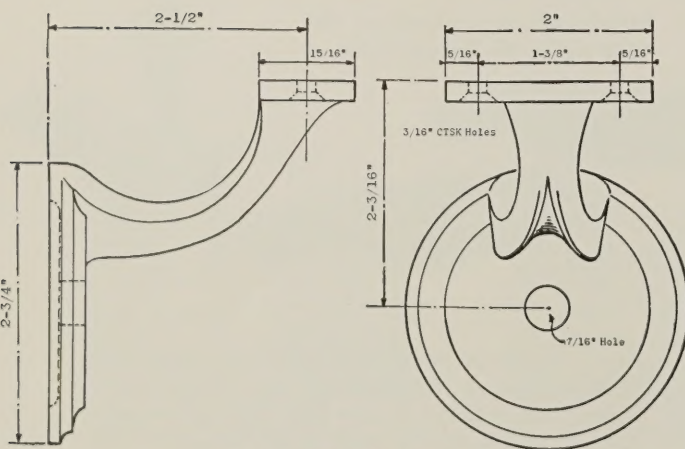
**WALL BRACKET FILLER**  
No. 372 Cast Iron



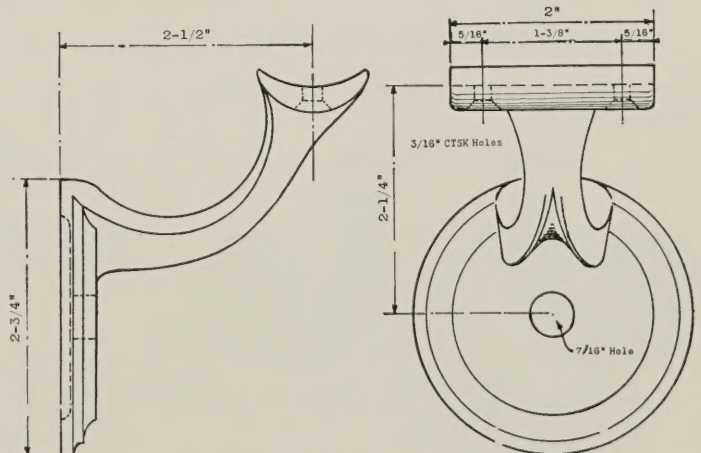
**CURVED TOP MEMBER**  
No. 374 Cast Iron – No. 378 Malleable Iron  
No. 386 Malleable Iron, with 3" Reach



**Method of fastening Wall Bracket using Filler No. 372**



**FLAT TOP MEMBER**  
No. 379 Cast Iron  
No. 381 Malleable Iron



**CURVED TOP MEMBER**  
No. 380 Cast Iron  
No. 382 Malleable Iron

All Handrail Brackets furnished with screw holes for fastening to the wall and to the handrail.



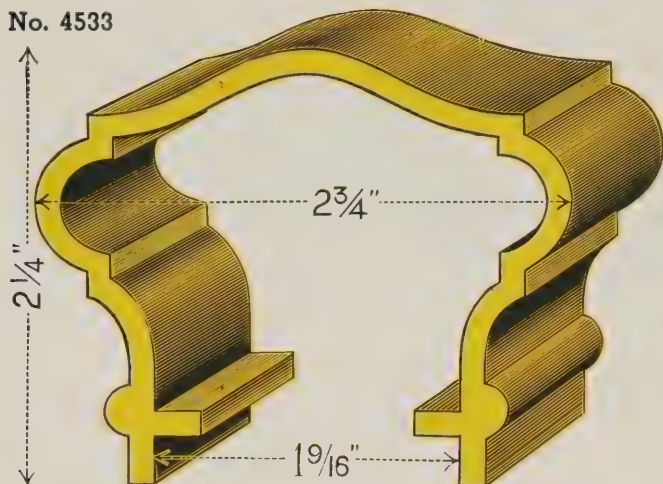
# Architectural Bronze and Aluminum Handrails

For Handrails with matched fittings, see page 10

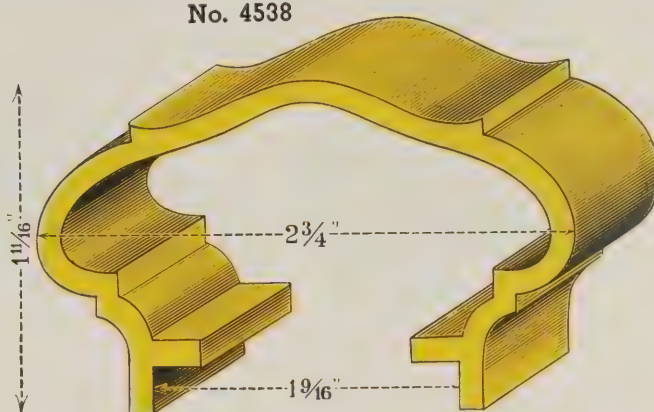
Fittings are NOT furnished for Handrails on this page

## ARCHITECTURAL BRONZE HANDRAILS

No. 4533



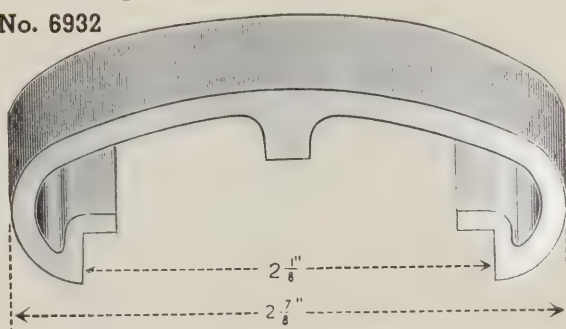
No. 4538



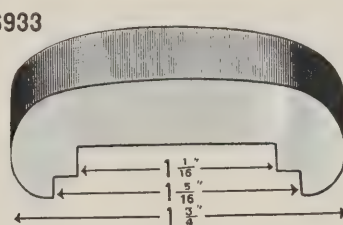
## ALUMINUM HANDRAILS

Alloy 63 SF suitable for alumilting

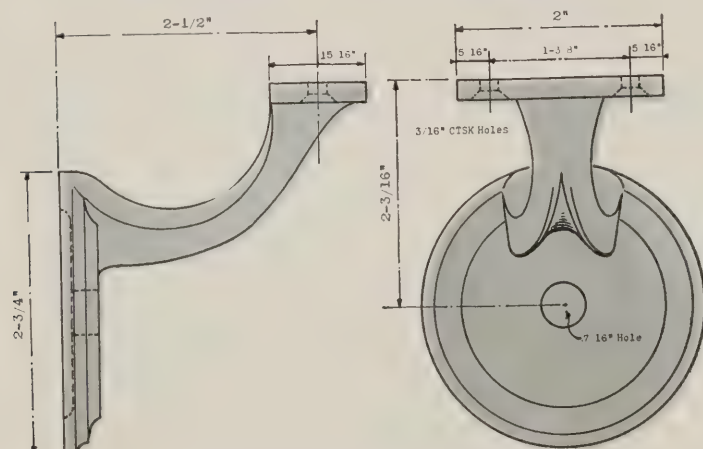
No. 6932



No. 6933



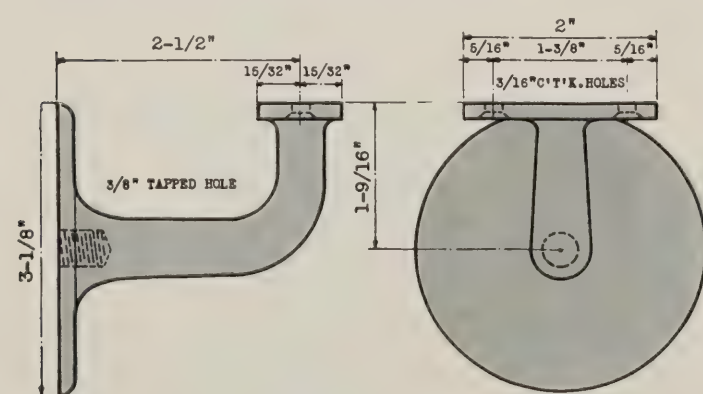
## POLISHED HANDRAIL BRACKETS



## ARCHITECTURAL ALUMINUM

No. 383—Flat top member (as shown)

No. 384—Curved top member (for pipe rail)

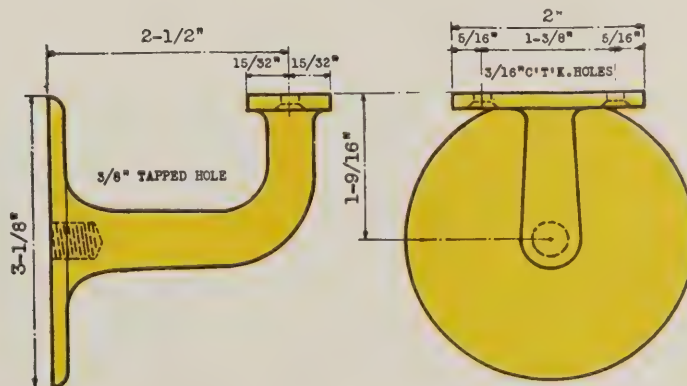


## ARCHITECTURAL ALUMINUM

No. 371—Flat top member (as shown)

No. 376—Curved top member (for pipe rail)

Handrail Brackets are a finished product. They match the color of our handrails.



## ARCHITECTURAL BRONZE

No. 370—Flat top member (as shown)

No. 375—Curved top member (for pipe rail)



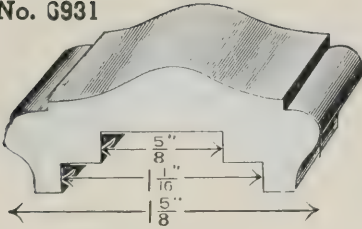
# HANDRAILS WITH MATCHED FITTINGS

Polished Handrail Fittings are carried in stock to match the profiles of these Handrails.

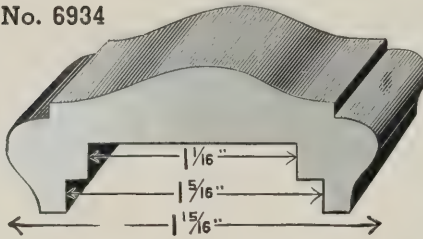
## ARCHITECTURAL ALUMINUM

Alloy 63 S-F, suitable for Alumilting

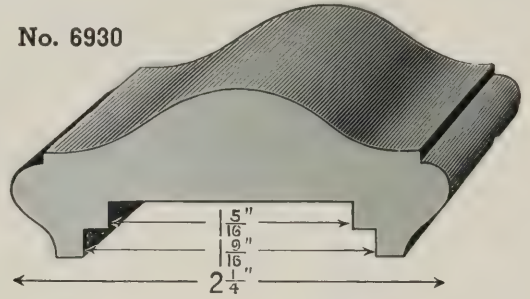
No. 6931



No. 6934

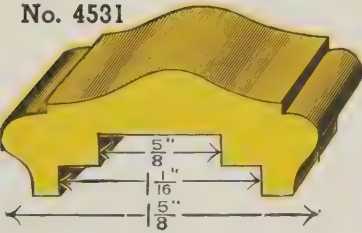


No. 6930

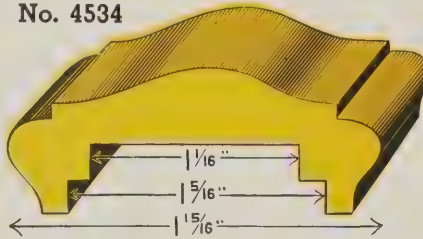


## ARCHITECTURAL BRONZE

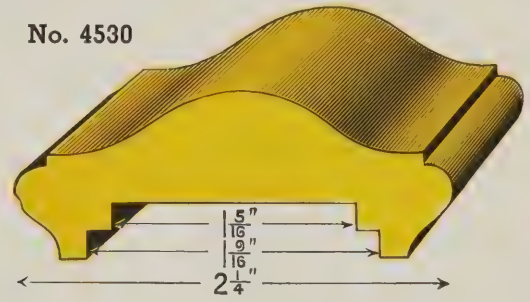
No. 4531



No. 4534

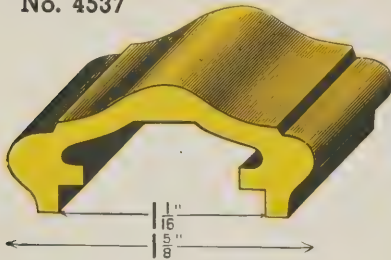


No. 4530

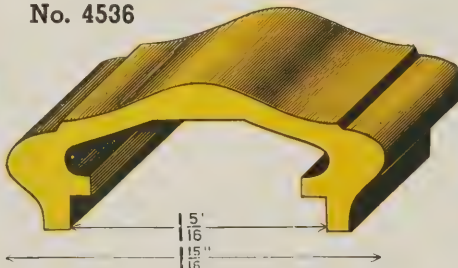


Handrails No. 4531, 4534 and 4530 above are especially suited for bending. Handrails No. 4537, 4536 and 4532 below have outside profiles identical to the corresponding heavier sections above. They are more economical for use in straight runs where bending is not required.

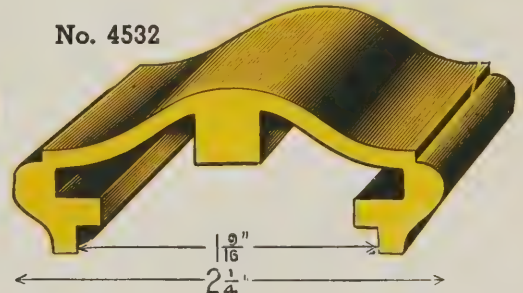
No. 4537



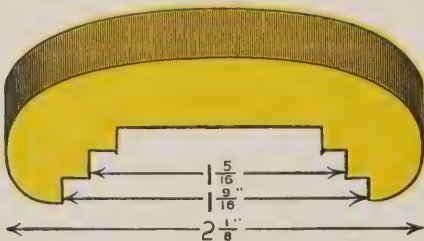
No. 4536



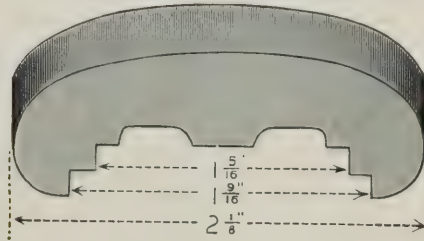
No. 4532



No. 4535 Architectural Bronze



No. 6935 Architectural Aluminum



Carried in stock in long straight bars.  
Can also be furnished cut to specified lengths.

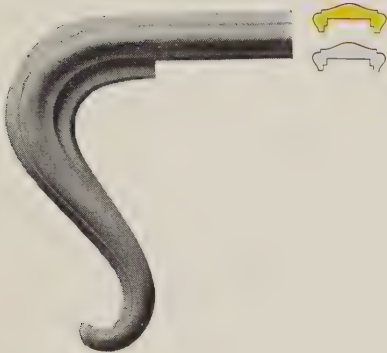
For Fittings to match these Handrails see adjoining page.  
For Channels and Flats to fit the underside of Handrails, see pages 12 and 13.



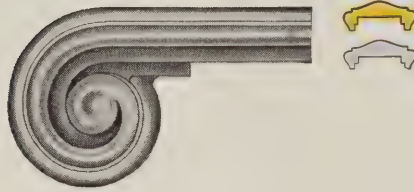
# HANDRAIL FITTINGS

To Match Bronze and Aluminum Handrails  
Shown on Adjoining Page

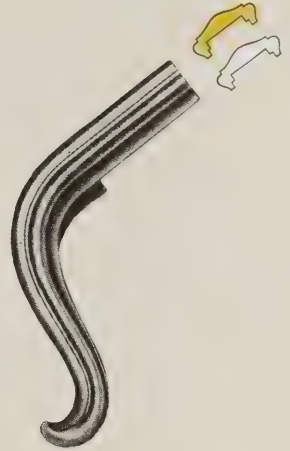
STRAIGHT LAMB'S  
TONGUE



VOLUTE

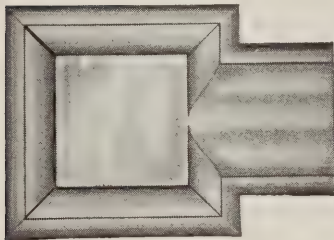


BEVEL LAMB'S  
TONGUE

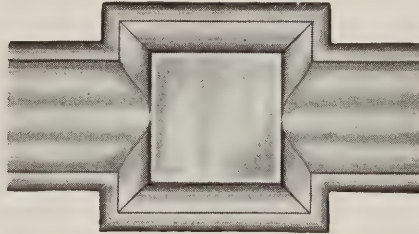


For Handrail Wall Brackets, see page 9

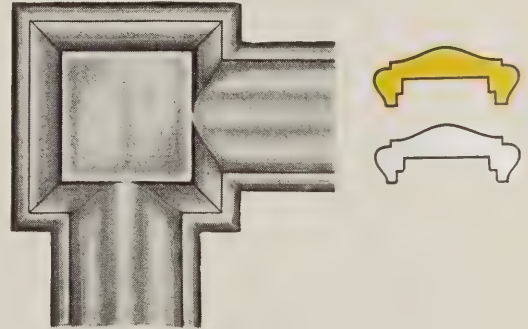
TERMINAL



CENTER PIECE "T"



CORNER PIECE "L"



CORNER BEND

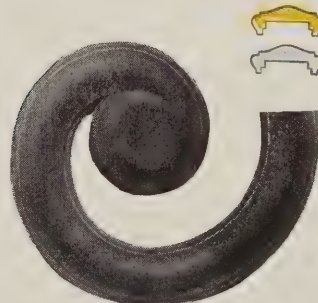


Radius 2½" to  
Center of Handrail

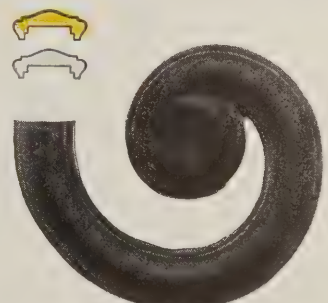
For Steel Flat Bar  
Scrolls to fit under-  
side of Bronze and  
Aluminum Lateral  
Scrolls, see page 7.

LATERAL SCROLLS

Full size details furnished upon request.



Left Hand



Right Hand

Handrail Fittings are carried in stock with polished finish.  
They match the color and profile of Handrails shown on adjoining page.

WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING.



# EXTRUDED BRONZE RODS AND SHAPES

Match the color of our Bronze Handrails

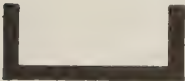


## EXTRUDED BRONZE SQUARES

### Sharp Corners

16 Foot Lengths

	Weight		Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.518 lb.	$\frac{3}{4}$ " x $\frac{3}{4}$ "	2.075 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ "	.922	1" x 1"	3.689
$\frac{5}{8}$ " x $\frac{5}{8}$ "	1.441	$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	5.76



## EXTRUDED BRONZE CHANNELS

### Square Root & Square Edge

20 Foot Lengths

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{32}$ "	.44 lb.
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.85
$1\frac{1}{4}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.02
$1\frac{1}{2}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.15
2" x $\frac{3}{4}$ " x $\frac{1}{8}$ "	1.47
$2\frac{1}{4}$ " x $\frac{7}{8}$ " x $\frac{1}{8}$ "	1.75



## EXTRUDED BRONZE FLATS

### Sharp Corners

16 Foot Lengths

	Weight		Weight
$\frac{1}{8}$ " x $\frac{1}{2}$ "	.231 lb.	$\frac{3}{16}$ " x $1\frac{1}{2}$ "	1.040 lb.
$\frac{1}{8}$ " x $\frac{5}{8}$ "	.289	$\frac{3}{16}$ " x 2"	1.382
$\frac{1}{8}$ " x $\frac{3}{4}$ "	.346	$\frac{3}{16}$ " x $2\frac{1}{2}$ "	1.728
$\frac{1}{8}$ " x 1"	.461	$\frac{3}{16}$ " x 3"	2.075
$\frac{1}{8}$ " x $1\frac{1}{4}$ "	.576	$\frac{1}{4}$ " x $\frac{5}{8}$ "	.576
$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.690	$\frac{1}{4}$ " x $\frac{3}{4}$ "	.691
$\frac{1}{8}$ " x 2"	.921	$\frac{1}{4}$ " x 1"	.921
$\frac{3}{16}$ " x $\frac{1}{2}$ "	.346	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.380
$\frac{3}{16}$ " x $\frac{5}{8}$ "	.432	$\frac{1}{4}$ " x 2"	1.842
$\frac{3}{16}$ " x $\frac{3}{4}$ "	.518	$\frac{1}{4}$ " x $2\frac{1}{2}$ "	2.304
$\frac{3}{16}$ " x 1"	.689	$\frac{1}{4}$ " x 3"	2.766
$\frac{3}{16}$ " x $1\frac{1}{4}$ "	.870		

# SQUARE AND RECTANGULAR TUBING

Matches the color of our Bronze Handrails, Rods and Shapes

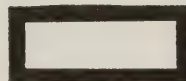


## RICH LOW BRASS SQUARE TUBING

### Sharp Corners

16 Foot Lengths

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x .065"	.43 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x .065"	.55
$\frac{3}{4}$ " x $\frac{3}{4}$ " x .065"	.68
1" x 1" x .065"	.92
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x .083"	1.46
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x .083"	1.79
2" x 2" x .083"	2.53



## RICH LOW BRASS RECTANGULAR TUBING

### Sharp Corners

16 Foot Lengths

	Weight
2" x 1" x .083"	1.78 lb.
$2\frac{1}{2}$ " x $1\frac{1}{4}$ " x .083"	2.15
3" x $1\frac{1}{2}$ " x .083"	2.68
3" x 2" x .083"	3.05

The above material can also be furnished cut to specified lengths.

For other Bronze Shapes carried in stock, see page 94



# ALUMINUM RODS AND SHAPES

SHARP CORNERS — ALLOY 63 S-T5 — Suitable for alumilting

16 foot lengths, except as noted



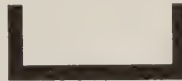
## ALUMINUM FLATS

	Weight		Weight		Weight		Weight
$\frac{1}{8}$ " x 1"	.150 lb.	$\frac{1}{4}$ " x $\frac{1}{2}$ "	.150 lb.	$\frac{3}{8}$ " x $\frac{3}{4}$ "	.338 lb.	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	.900 lb.
$\frac{1}{8}$ " x $1\frac{1}{4}$ "	.187	$\frac{1}{4}$ " x $\frac{3}{4}$ "	.224	$\frac{3}{8}$ " x 1"	.450	$\frac{1}{2}$ " x 2"	1.200
$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.226	$\frac{1}{4}$ " x 1"	.300	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	.563	$\frac{1}{2}$ " x $2\frac{1}{2}$ "	1.500
$\frac{1}{8}$ " x 2"	.300	$\frac{1}{4}$ " x $1\frac{1}{4}$ "	.374	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	.674	$\frac{1}{2}$ " x 3"	1.800
$\frac{3}{16}$ " x 1"	.226	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	.450	$\frac{3}{8}$ " x 2"	.900	$\frac{3}{4}$ " x $1\frac{1}{2}$ "	1.350
$\frac{3}{16}$ " x $1\frac{1}{2}$ "	.337	$\frac{1}{4}$ " x 2"	.600	$\frac{3}{8}$ " x 3"	1.350	$\frac{3}{4}$ " x 2"	1.800
$\frac{3}{16}$ " x 2"	.450	$\frac{1}{4}$ " x $2\frac{1}{2}$ "	.750	$\frac{1}{2}$ " x 1"	.600	1" x $1\frac{1}{2}$ "	1.800
		$\frac{1}{4}$ " x 3"	.900	$\frac{1}{2}$ " x $1\frac{1}{4}$ "	.750	1" x 2"	2.400



## ALUMINUM SQUARES

	Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.169 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ "	.300
$\frac{5}{8}$ " x $\frac{5}{8}$ "	.468
$\frac{3}{4}$ " x $\frac{3}{4}$ "	.674
1" x 1"	1.200
$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	1.875



## ALUMINUM CHANNELS

Square Root & Square Edge

	Weight		Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ " x .109"	.120 lb.	$1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.337 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{32}$ "	.148	$1\frac{1}{2}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "**	.374
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ "	.187	2" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.413
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.263	2" x 1" x $\frac{1}{8}$ "**	.564
1" x 1" x $\frac{1}{8}$ "	.413	$2\frac{1}{4}$ " x $\frac{7}{8}$ " x $\frac{1}{8}$ "**	.563
$1\frac{1}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.300	3" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.563
$1\frac{1}{4}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "**	.337	3" x 1" x $\frac{1}{8}$ "	.713

\*\* 20 foot lengths

# ALUMINUM SQUARE AND RECTANGULAR TUBING

SHARP CORNERS — Alloy 3 S-F, As Drawn — Suitable for alumilting

18 foot lengths, except as noted.



## ALUMINUM SQUARE TUBING

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x .062"	.130 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x .062"	.167
$\frac{3}{4}$ " x $\frac{3}{4}$ " x .062"	.205
1" x 1" x .062"	.278
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x .078"	.438
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x .078"	.532
2" x 2" x .078"	.720

\* 16 foot lengths      \*\* 20 foot lengths



## ALUMINUM RECTANGULAR TUBING

	Weight
$\frac{1}{2}$ " x 1" x .078"	.246 lb.
$\frac{3}{4}$ " x $1\frac{1}{2}$ " x .078"	.292
1" x $1\frac{1}{2}$ " x .078"	.431
1" x 2" x .083"	.553
$1\frac{1}{4}$ " x $2\frac{1}{2}$ " x .083"	.700
$1\frac{1}{2}$ " x 2" x .078"	.622
$1\frac{3}{4}$ " x 3" x .125"	1.323
$1\frac{3}{4}$ " x 4" x .125"	1.650
$1\frac{3}{4}$ " x 5" x .125"	1.910

For other Aluminum Shapes carried in stock, see pages 92 and 93.



# ALUMINUM HANDRAIL PIPE AND FITTINGS



## ALUMINUM I.P.S. PIPE

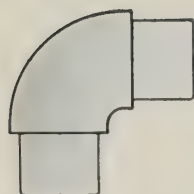
Alloy 61 S-T 85 — 12 foot lengths, except as noted.

Nominal Size	O.D.	Wall	Weight per foot
1 1/4"*	1.660"	.140"	.785 lb.
1 1/2"	1.900"	.145"	.939
2"	2.375"	.154"	1.262

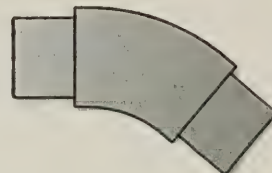
\* Alloy 63 S-T 5 — 16 foot lengths.

This pipe is produced especially for use in railings, combining high strength, straightness, accurate dimensions and superior finish. Fittings are clean and smooth, free from imperfections.

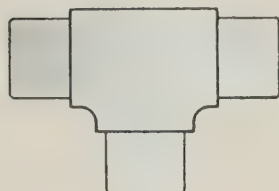
Suitable for alumilinting.



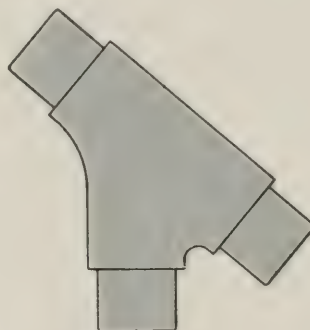
Elbow 90°



Angle Elbow  
Horizontal or Vertical



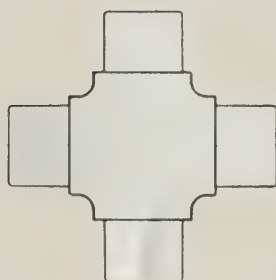
Tee 90°



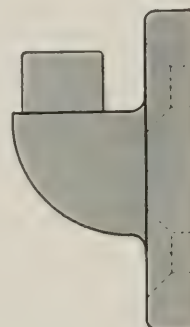
Angle Tee  
Horizontal or Vertical



Pipe Plug



Cross 90°



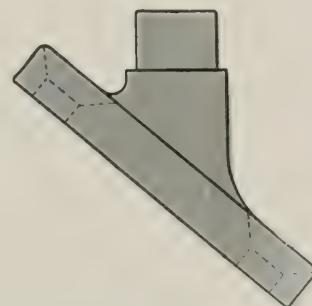
Facia Flange



Floor Flange



Angle Cross



Angle Flange

Standard Angles for Elbows, Tees, Crosses and Flanges are 35°, 40° and 90°.

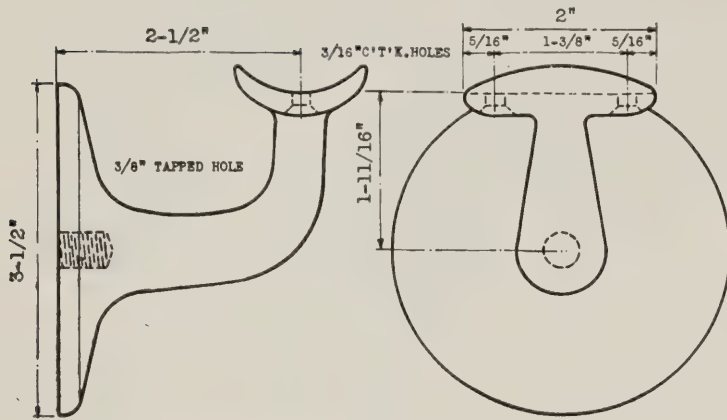
All Elbows, Tees and Crosses can be furnished with side outlet.

WHEN ORDERING, SPECIFY PIPE SIZE, TYPE OF FITTING AND ANGLE.

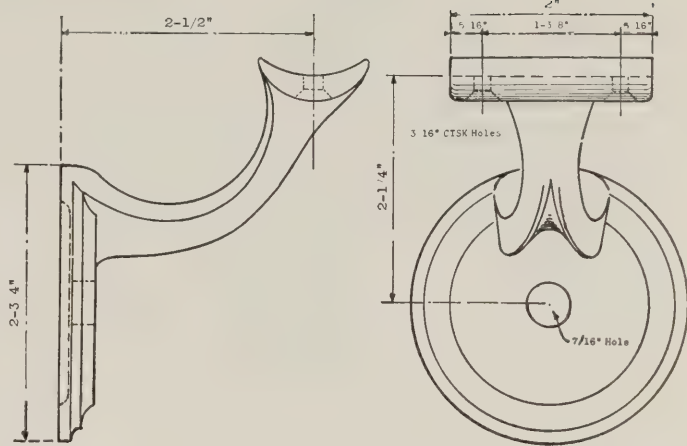


# PIPE RAIL WALL BRACKETS

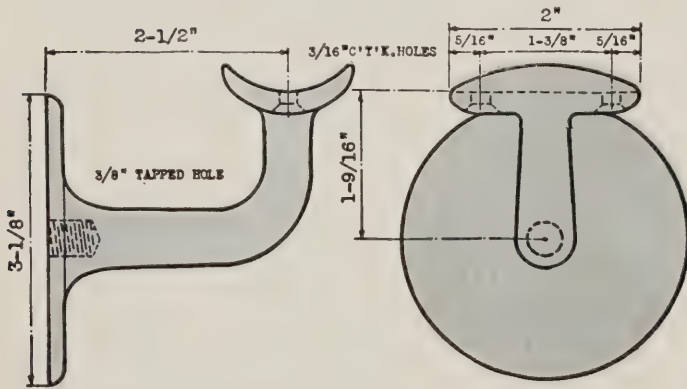
Curved top member, for 1 1/4" or larger pipe  
Also carried in stock with flat top member



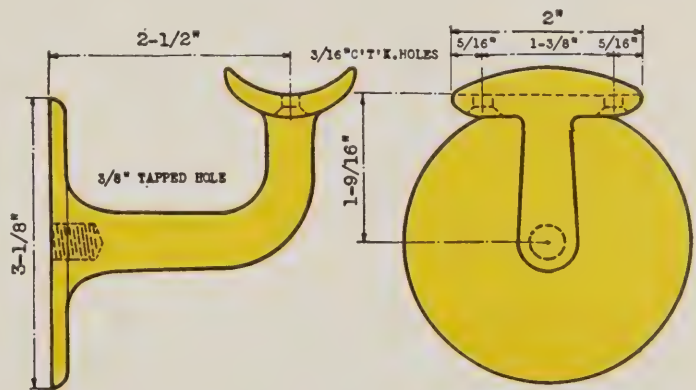
No. 374—Cast Iron  
No. 378—Malleable Iron } as shown  
No. 386—Malleable Iron, with 3" Reach  
No. 373—Cast Iron  
No. 377—Malleable Iron } for flat rail



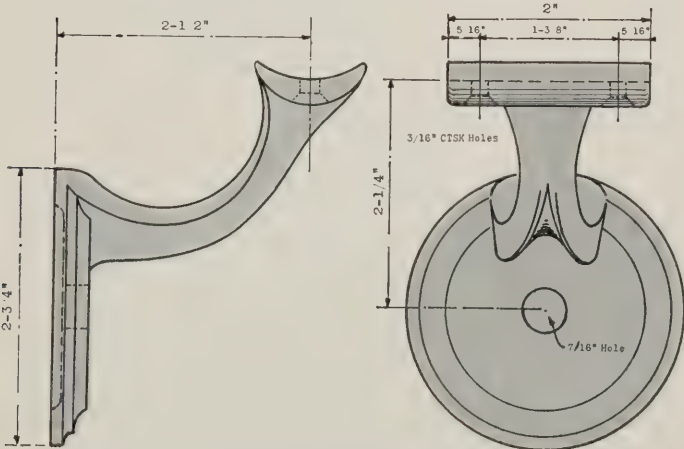
No. 380—Cast Iron  
No. 382—Malleable Iron } as shown  
No. 379—Cast Iron  
No. 381—Malleable Iron } for flat rail



No. 376—Polished Aluminum (as shown)  
No. 371—Polished Aluminum (for flat rail)

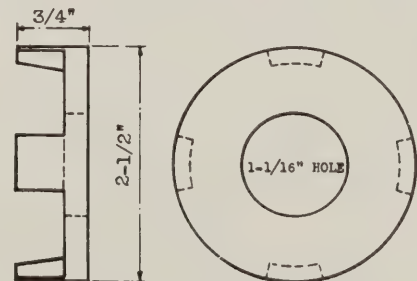


No. 375—Polished Bronze (as shown)  
No. 370—Polished Bronze (for flat rail)



No. 384—Polished Aluminum (as shown)  
No. 383—Polished Aluminum (for flat rail)

## HANDRAIL WALL BRACKET FILLER



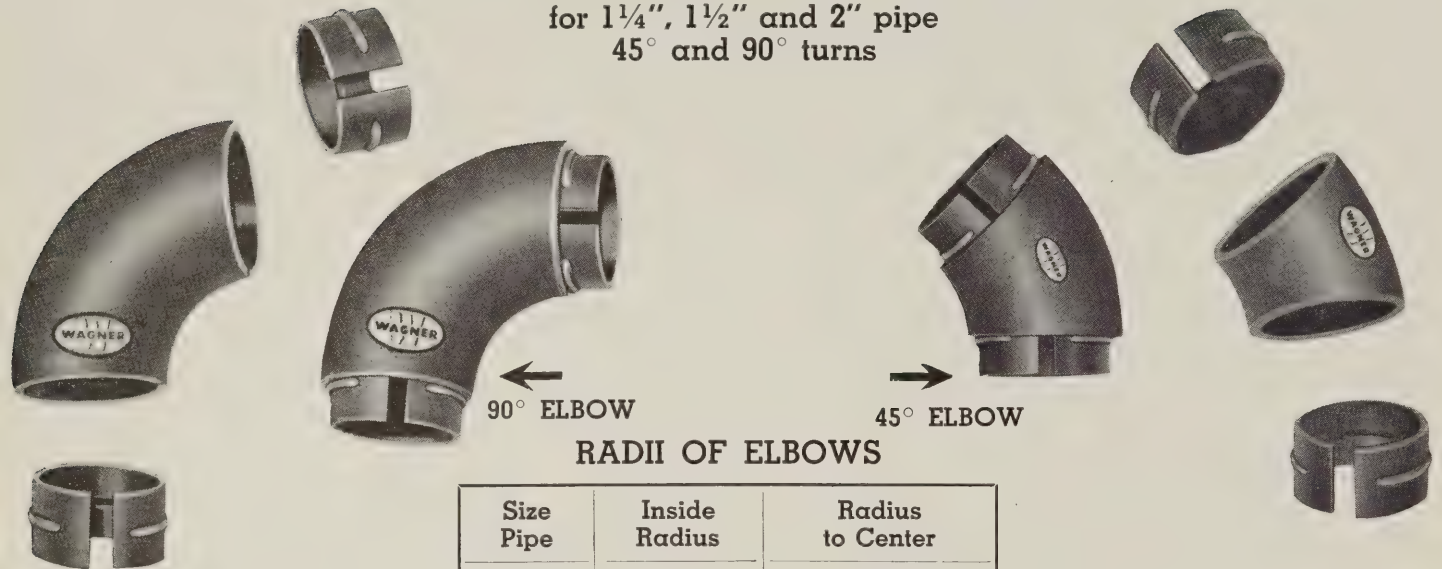
No. 372—Cast Iron  
See Page 8 for assembly detail

All Handrail Brackets furnished with screw holes for fastening to the wall and to the handrail.



## STEEL ELBOWS FOR WELDED PIPE CONSTRUCTION

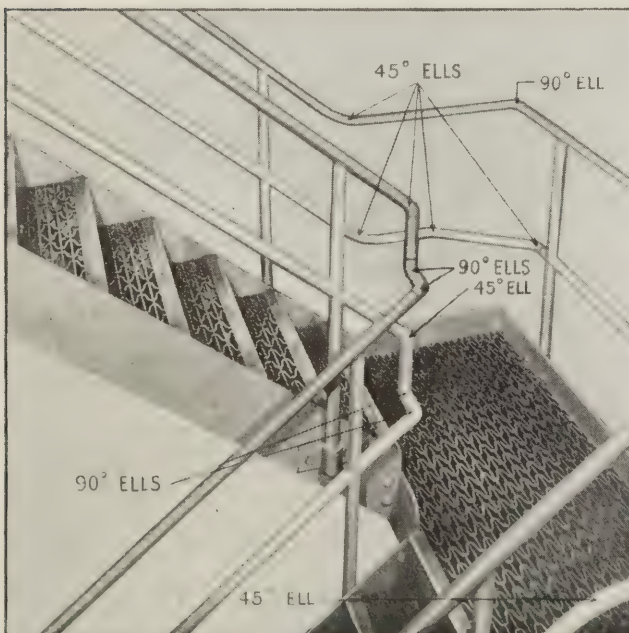
for 1¼", 1½" and 2" pipe  
45° and 90° turns



Size Pipe	Inside Radius	Radius to Center
1¼"	1"	1 $\frac{13}{16}$ "
1½"	1¼"	2¼"
2"	1"	2 $\frac{3}{16}$ "

## A FASTER METHOD OF FABRICATING PIPE RAILINGS

Steel Elbows and Connectors are easy to assemble. Connector snaps in place with a spring fit, holding the elbow and pipe in proper position for welding.

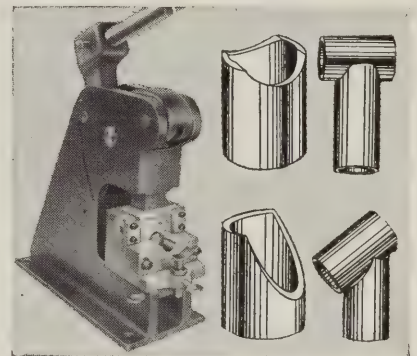


A complicated railing job made easy  
with steel elbows and connectors.

## EQUIPMENT FOR FABRICATION OF PIPE RAILINGS

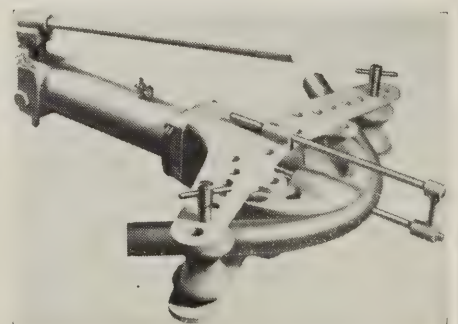
### "Arc Fit"

The Arc Fit notches the end of the pipe so as to produce a perfect fit for T joints — no deformation of the pipe. Dies carried in stock for ¾" to 2" pipe.



### PORTABLE HYDRAULIC PIPE BENDER

The Tal Bender handles any size pipe without effort. Three sizes, for pipe up to 2", up to 3", and up to 4".



For details, refer to special catalog  
"Metal Working Machinery"

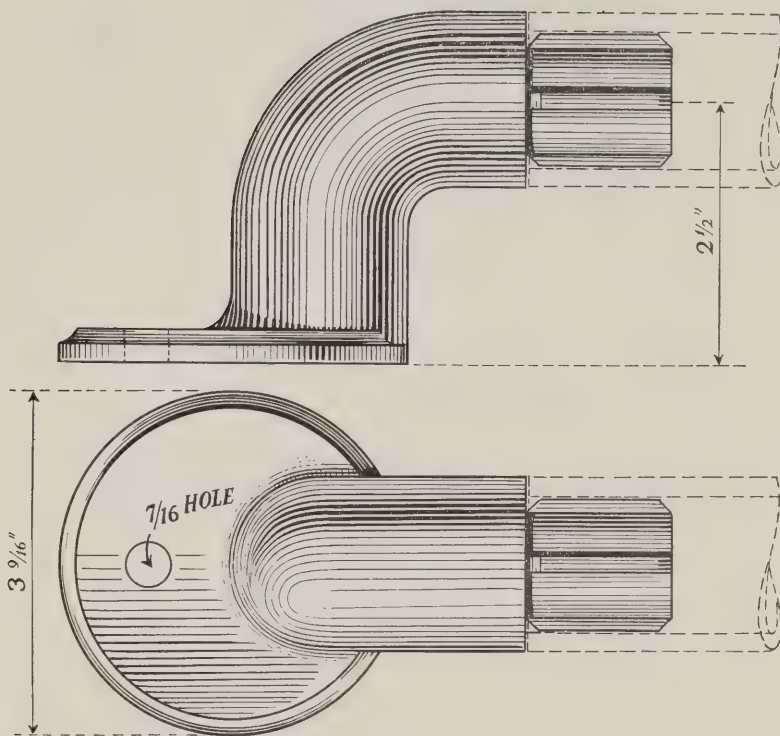


# PIPE RAILING FITTINGS

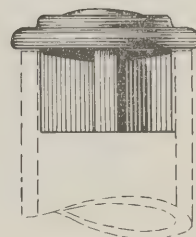
Cast Iron

Illustrations are NOT actual size

## WALL RETURN



## PIPE PLUG



### Pipe Plugs

No. 607 for 1 1/4" std. pipe

No. 608 for 1 1/2" std. pipe

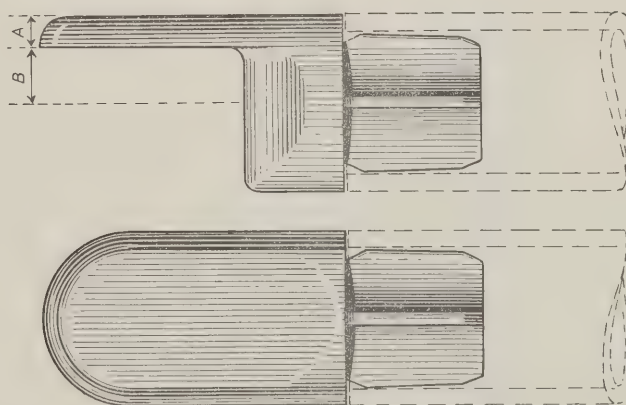
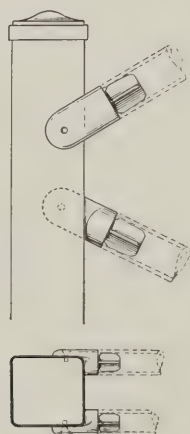
No. 609 for 2" std. pipe

### Wall Returns (at left)

No. 604 for 1 1/4" std. pipe

No. 605 for 1 1/2" std. pipe

## SQUARE POST FITTING

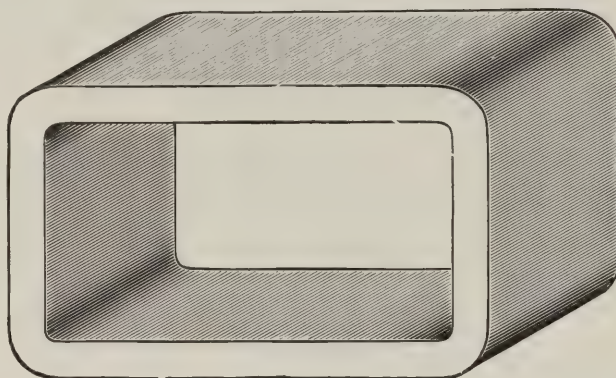
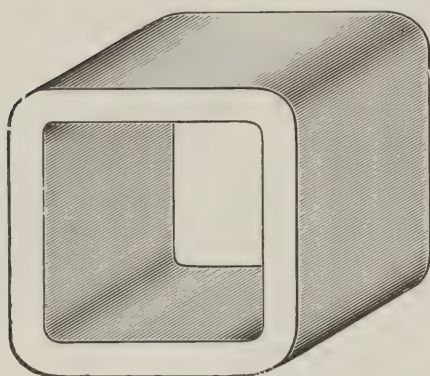


Square Post Fittings can be used on right and left hand rails, going up or down, as well as horizontally.

Number	for Std. Pipe	A	B
601	1 1/4"	3/8"	1/2"
602	1 1/2"	7/16"	9/16"

# Heavy Wall Square and Rectangular Steel Tubing

Slightly Rounded Corners



## SQUARE

1"	x 1"	x .120" Wall
1 1/4"	x 1 1/4"	x .120"
1 1/4"	x 1 1/4"	x .135"
1 1/4"	x 1 1/4"	x 3/16"
1 1/2"	x 1 1/2"	x .120"
1 1/2"	x 1 1/2"	x .140"
1 1/2"	x 1 1/2"	x 3/16"
2"	x 2"	x .120"
2"	x 2"	x .145"
2"	x 2"	x 3/16"
2"	x 2"	x 1/4"
2 1/2"	x 2 1/2"	x .120"
2 1/2"	x 2 1/2"	x 3/16"
2 1/2"	x 2 1/2"	x 1/4"
3"	x 3"	x 1/8"
3"	x 3"	x 3/16"
3 1/2"	x 3 1/2"	x 3/16"
4"	x 4"	x .134"
4"	x 4"	x 3/16"
4"	x 4"	x 1/4"

## OUTSIDE MEASUREMENTS

For other stock sizes of square and rectangular steel tubing, see page 89.

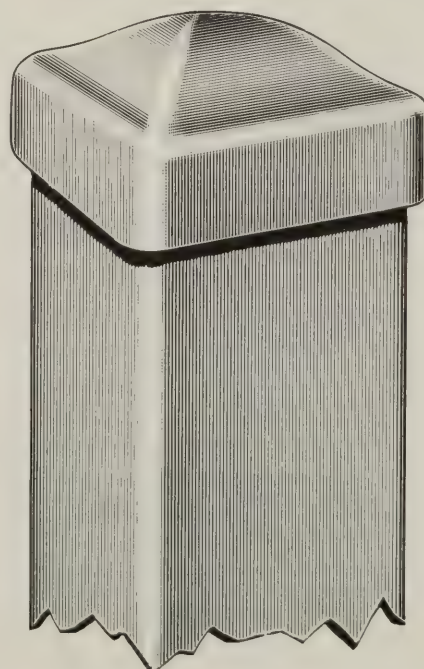
Additional sizes can be furnished from mill.

## RECTANGULAR

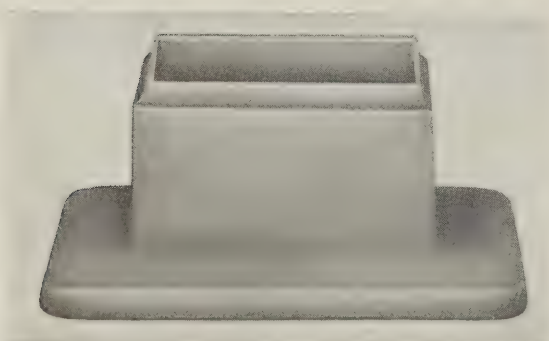
1 1/2"	x 2 1/2"	x .120" Wall
1 1/2"	x 2 1/2"	x .145"
2"	x 3"	x .120"
2 1/2"	x 5"	x 3/16"
3"	x 4"	x 3/16"
3"	x 6"	x 3/16"
3"	x 6"	x 1/4"
3"	x 8"	x 3/16"
4"	x 6"	x 3/16"
4"	x 6"	x 1/4"
4"	x 8"	x 3/16"

## STEEL STAIR POSTS

Tubular steel posts are light and strong, straight and true, easy to fabricate and install. Tubing listed here is sufficiently heavy for tap screws.



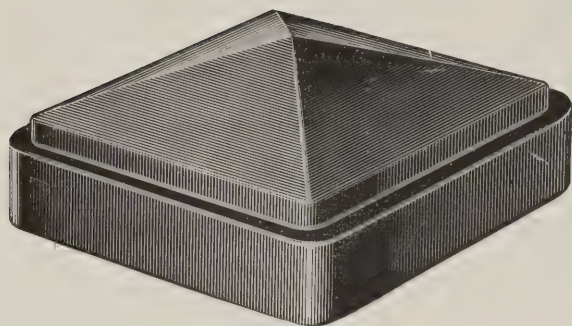
## SQUARE TUBE SOCKETS



Cast Iron Square Tube Sockets carried in stock for posts from 1" square to 3" square. For dimensions, see page 22.

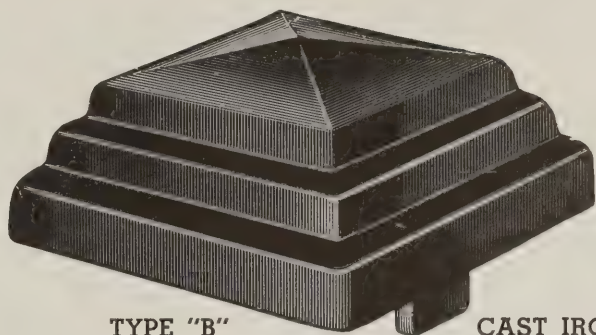


# NEWEL POST CAPS AND DROPS



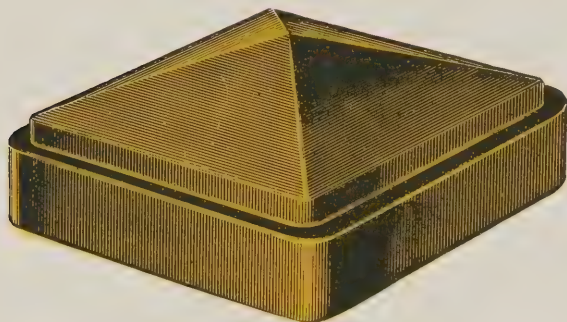
**TYPE "A"**  
**CAST IRON**

Square	Rectangular
2" x 2"	3" x 4"
2½" x 2½"	3" x 6"
3" x 3"	3" x 8"
3½" x 3½"	4" x 6"
4" x 4"	4" x 8"



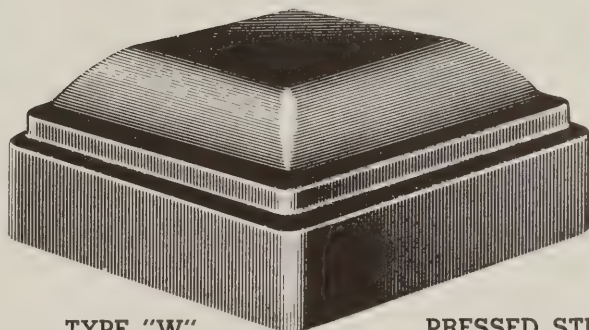
**TYPE "B"**  
**CAST IRON**  
With lugs

Square
3" x 3"
3½" x 3½"
4" x 4"



**TYPE "A"**  
**POLISHED BRONZE**

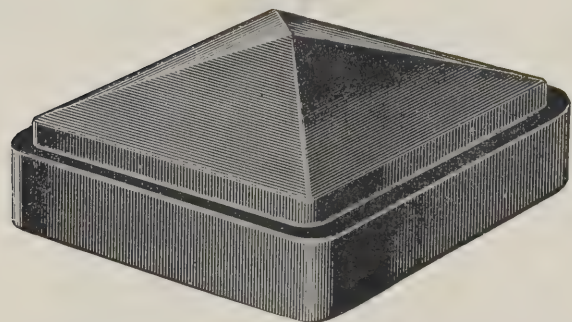
Square
3" x 3"
4" x 4"



**TYPE "W"**  
**PRESSED STEEL**

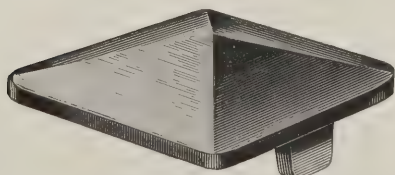
Square
3" x 3"
4" x 4"

Pressed Steel Caps require no fastening as they fit snugly over the ends of the tube.



**TYPE "A"**  
**POLISHED ALUMINUM**

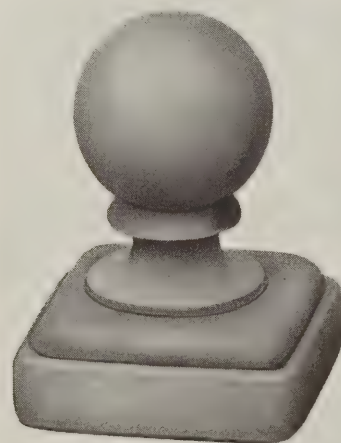
Square
3" x 3"
4" x 4"



**TYPE "C"**  
**CAST IRON**  
With lugs

Square	
1½" x 1½"	2½" x 2½"
2" x 2"	3" x 3"

All sizes shown are outside measurements of tubing.



**BALL CAP**  
**CAST IRON**

Square
2" x 2"
2½" x 2½"
3" x 3"
3½" x 3½"
4" x 4"

# POLISHED BRONZE URNS AND BALL FINIALS

Carried in stock with Round or Square Base. — Base has  $\frac{3}{8}$ " Tapped Hole

Machined from solid stock — Free from imperfections — No Breakage



6"

TYPE  
No. 402



5"



4"



3"

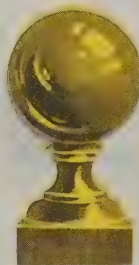


1" BALL

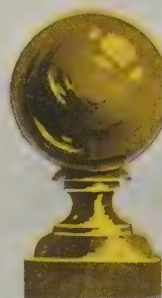


1 $\frac{1}{4}$ " BALL

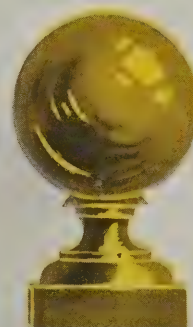
TYPE  
No. 404



1 $\frac{1}{2}$ " BALL



1 $\frac{3}{4}$ " BALL



2" BALL



No. 405

Unpolished  
Bronze Urns

Attractive  
—low in cost



No. 406

Urns No. 405 and 406 are machined from solid stock.

They are unpolished but have a smooth clean surface. Square base is unattached and fits over the round base. Base has  $\frac{3}{8}$ " tapped hole.



4"



3"

Type No. 403

Illustrations are one half actual size—  
For dimensions, see adjoining page.



# STEEL URNS AND BALL FINIALS

FORGED OR MACHINED WROUGHT STEEL

CLEAN APPEARANCE — NO BREAKAGE

Carried in stock with Square Base Only — Base has  $\frac{3}{8}$ " Tapped Hole



6"



5"



4"



3"

TYPE  
No. 452



1" BALL



1 1/4" BALL

TYPE  
No. 454



1 1/2" BALL



1 3/4" BALL



2" BALL

Illustrations are one half actual size.

## DIMENSIONS

### No. 452 — Steel

Height	Sq. Base	Dia. Ball
3"	1"	1"
4"	1 1/4"	1 1/4"
5"	1 1/2"	1 1/2"
6"	1 3/4"	1 3/4"

### No. 454 — Steel

Height	Sq. Base
1 3/4"	7/8"
2 3/8"	1 1/8"
2 3/4"	1 1/4"
3"	1 1/2"
3 3/8"	1 3/4"

Polished Aluminum Finials  
Machined From Solid Stock—Free  
From Imperfections.

### ← No. 402 — Bronze

Height	Sq. Base	Rd. Base
3"	1"	1"
4"	1 1/4"	1 1/4"
5"	1 1/2"	1 1/2"
6"	1 3/4"	Not furnished

### No. 404 — Bronze

Height	Sq. Base	Rd. Base
1 3/4"	1"	7/8"
2 3/8"	1 1/8"	1 1/8"
2 3/4"	1 1/4"	1 1/4"
3 1/8"	1 1/2"	1 1/2"
3 1/2"	1 3/4"	1 3/4"

### No. 405 — Bronze

### No. 406 — Bronze

Height	3 1/2"	Height	4"
Rd. Base	7/8"	Rd. Base	1 1/8"
Sq. Base	1"	Sq. Base	1 1/4"

### No. 403 — Bronze

Height	Sq. Base	Rd. Base
3"	1"	1"
4"	1 1/2"	1 1/2"



No. 434



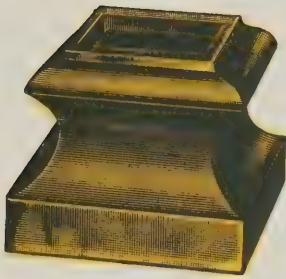
No. 432

Dia. of Ball 1 1/2"  
Height 2 3/4"  
Square Base 1 1/4"  
Base has 3/8" tapped hole

Height 4"  
Sq. Base 1 1/4"

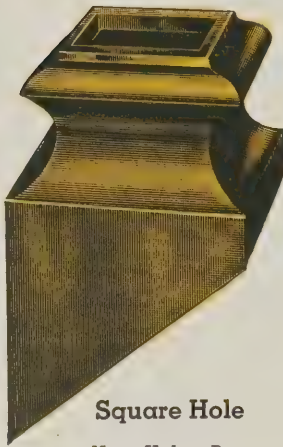
# BALUSTER COLLARS AND BASES

BRONZE — POLISHED FINISH



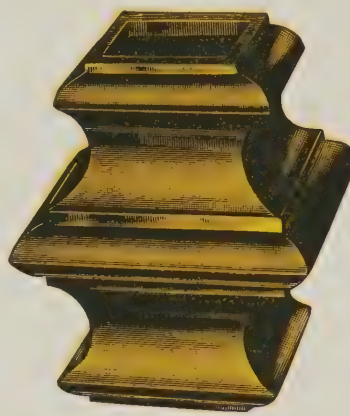
Square Hole

No.	Hole	Base
252	1/2"	1 1/4"
253	5/8"	1 1/4"
254	3/4"	1 3/8"
267	1"	1 3/4"
268	1 1/4"	2 3/4"
269	1 1/2"	3"



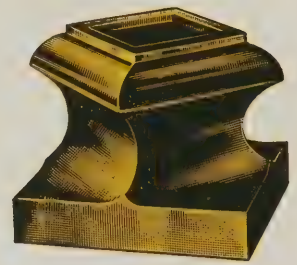
Square Hole

No.	Hole	Base
262	1/2"	1 1/4"
263	5/8"	1 1/4"
264	3/4"	1 3/8"



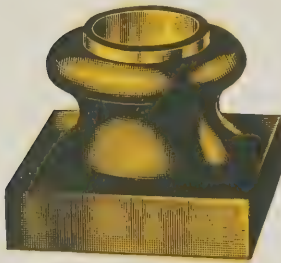
Square Hole

No. 265	1/2" Hole
No. 266	5/8" Hole



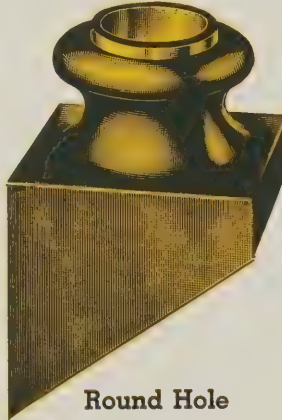
Square Hole  
On Edge

No. 258— 1/2" Hole  
1 1/4" Square Base



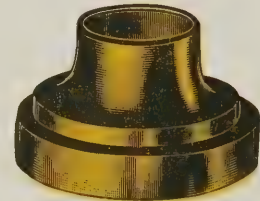
Round Hole

No.	Hole	Base
255	3/8"	1 1/4"
256	1/2"	1 1/4"
257	5/8"	1 3/8"



Round Hole

No.	Hole	Base
259	3/8"	1 1/4"
260	1/2"	1 1/4"
261	5/8"	1 3/8"



Round Base

No. 80 — 1/2" Round Hole



## SQUARE TUBE SOCKETS

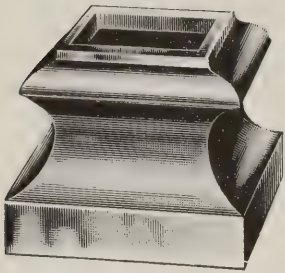
CAST IRON

Square Hole	Base	Height
1"	3"	1 3/8"
1 1/4"	3 1/4"	1 1/2"
1 1/2"	3 1/2"	1 3/4"
2"	4"	1 3/4"
2 1/2"	4 1/2"	1 7/8"
3"	5 3/16"	2 3/8"



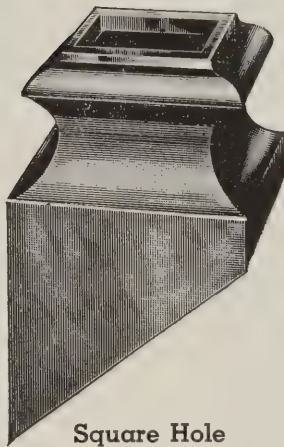
# BALUSTER COLLARS and BASES

— CAST IRON —



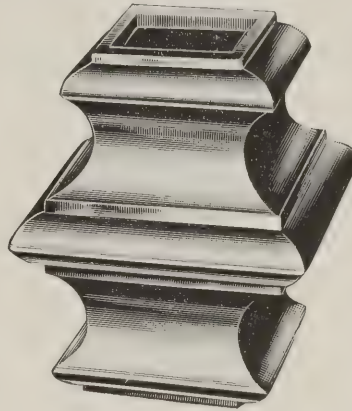
Square Hole

No.	Hole	Base
352	1/2"	1 1/4"
353	5/8"	1 1/4"
354	3/4"	1 3/8"
367	1"	1 3/4"
368	1 1/4"	2 3/4"
369	1 1/2"	3"



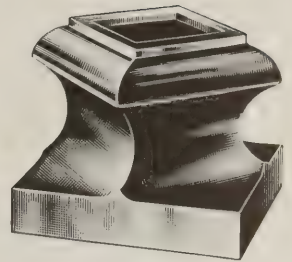
Square Hole

No.	Hole	Base
362	1/2"	1 1/4"
363	5/8"	1 1/4"
364	3/4"	1 3/8"



Square Hole

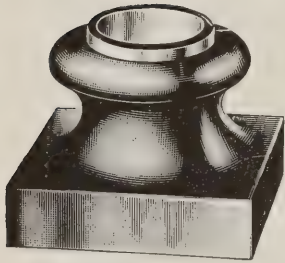
No. 365	1/2" Hole
No. 366	5/8" Hole
No. 348	3/4" Hole



Square Hole  
On Edge

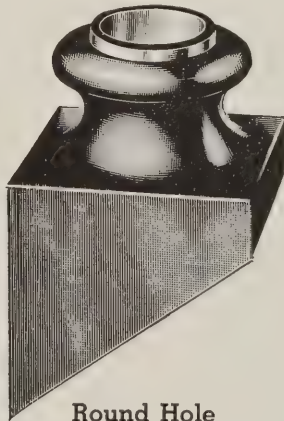
No. 358 1/2" Hole  
1 1/4" Square Base

— CAST IRON —



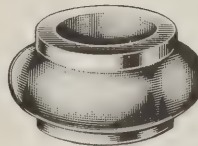
Round Hole

No.	Hole	Base
355	3/8"	1 1/4"
356	1/2"	1 1/4"
357	5/8"	1 3/8"
349	1"	2 1/2"
395	3/8" with flange	
396	1/2" with flange	
397	5/8" with flange	



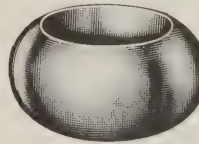
Round Hole

No.	Hole	Base
359	3/8"	1 1/4"
360	1/2"	1 1/4"
361	5/8"	1 3/8"



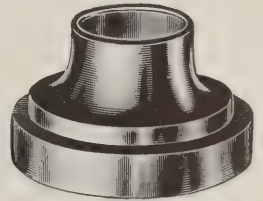
Round Collar

No. 72 1/2" Round Hole



Round Collar

No. 73 3/8" Round Hole  
No. 74 5/8" Round Hole

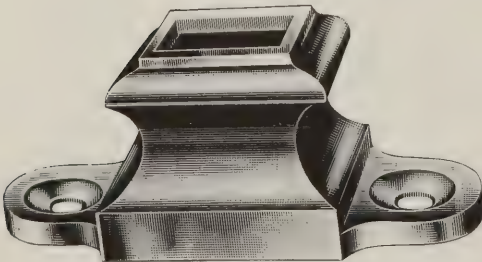


Round Base

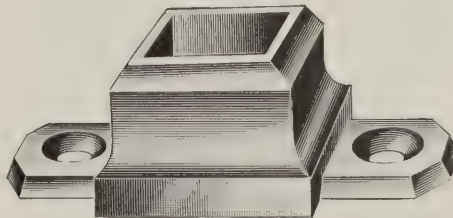
No. 75 3/8" Round Hole  
No. 77 1/2" Round Hole

— STEEL —

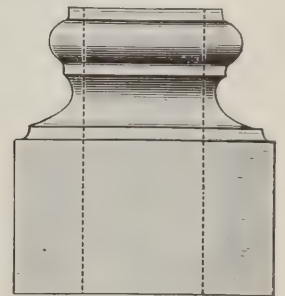
MALLEABLE IRON



No. 390 1/2" Square Hole  
No. 391 5/8" Square Hole  
No. 393 1" Square Hole



No. 350 1/2" Square Hole  
No. 351 5/8" Square Hole



No. 345 1/2" Square Hole  
No. 346 5/8" Square Hole  
No. 347 3/4" Square Hole

— CAST IRON —

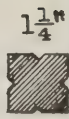
# FORGED STARTING POSTS & BALUSTER BARS

LENGTH: 3'-0"

SCALE: 3" = 1'-0"



No. 332



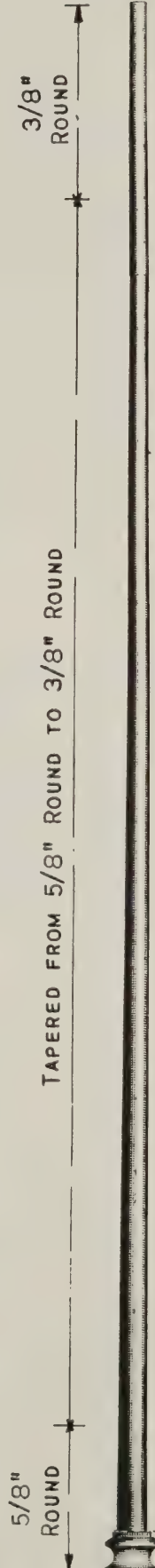
No. 343

BASES SHOWN ARE UNATTACHED, CAN BE FURNISHED IN  
CAST IRON OR POLISHED BRONZE

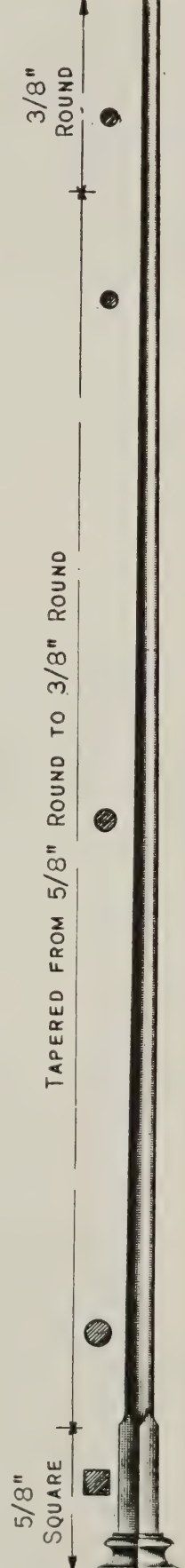


No. 331

LENGTH... 3'-0"



No. 329



No. 330



# ORNAMENTAL STARTING POSTS

SCALE 3" = 1'-0"

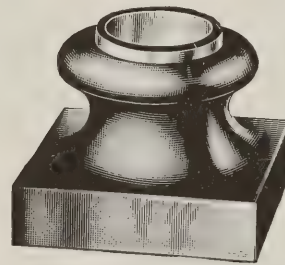
These Posts are designed to allow for adjustment to varying railing heights. They may be made shorter without interference with the ornamentation.

## DIMENSIONS

	Length	Lower End	Upper End
No. 333 .....	3'-0"	1½" Sq.	⅞" Rd.
No. 334 .....	3'-0"	1" Rd.	1" Rd.
No. 335 .....	3'-0"	1¼" Sq.	1¼" Sq.

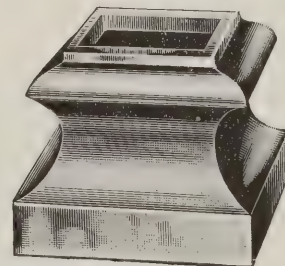
## Base Collars for Starting Posts

### ROUND HOLE



No. 349—1" Hole—2½" sq. base  
Fits Post No. 334

### SQUARE HOLE



No. 368 Cast Iron } 1¼" Hole—2¾" sq. base  
No. 268 Polished Bronze } Fits Post No. 335

No. 369 Cast Iron } 1½" Hole—3" sq. base  
No. 269 Polished Bronze } Fits Post No. 333

For other Collars and Bases, see pages 22 and 23



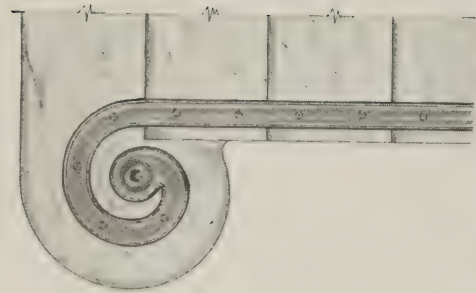
No. 333



No. 334



No. 335



## Hollow Tapered Steel Spindles



Detail of Railing showing application of Hollow tapered Steel Spindles. They may also be used for grilles, doors, window guards, etc., also for lamps and, cut in half, as chair and table legs.

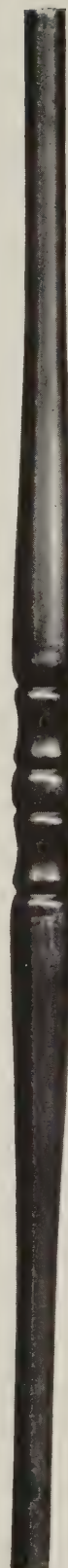
On account of their EXTREMELY LOW COST, HOLLOW STEEL SPINDLES can be used for work where price is the determining factor.

For high class work, we recommend forged spindles and Balusters as shown on Pages 24, 27, 28, 29.

HOLLOW STEEL SPINDLES may be easily polished and plated. They are strong, but light in weight.



No. 300  
1 1/4" in center  
tapering to  
3/4" on ends



No. 310  
1" in center  
tapering to  
5/8" on ends



No. 320  
3/4" in center  
tapering to  
3/8" on ends

Nos. 300 and 320 carried in stock in 3 ft. lengths.  
No. 310 carried in stock in 3 and 5 ft. lengths.



**No. 325**  
1/2" round  
at ends

**No. 326**  
3/8" round  
at ends

**No. 327**  
1/2" round  
at ends

**No. 328**  
5/8" round  
at ends



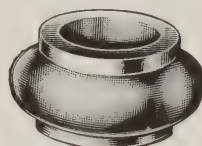
## FORGED SPINDLES

Spindles are hammer forged from solid stock.  
Length 36".

Collars shown near the ends of Forged Spindles are furnished loose for alignment to required position when spindles are used on stair treads.

### Collars and Bases for Forged Spindles Round Holes

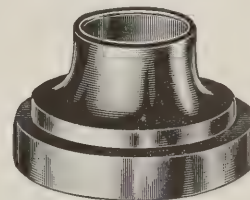
Turned Steel



**No. 72**—1/2" hole

2 collars **No. 72** included  
with each spindle **No.**  
**325** or **327**.

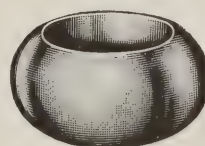
Base Collar



Turned Steel

**No. 75** 3/8" hole

**No. 77** 1/2" hole



**No. 73**—3/8" hole

**No. 74**—5/8" hole ...

2 collars **No. 73** included  
with each spindle **No.**  
**326**.

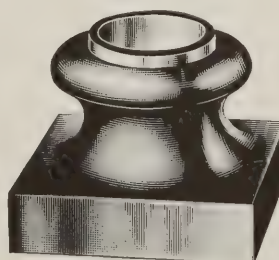
2 collars **No. 74** with  
each spindle **No. 328**.

Bronze

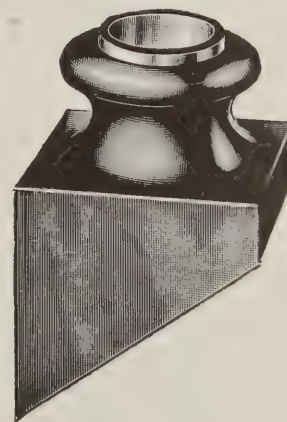
**No. 80**

1/2" hole

Base Collar



Bevel Base Collar



Bronze No.	Iron No.	Hole	Width
<b>255</b>	<b>355</b>	3/8"	1 1/4"
<b>256</b>	<b>356</b>	1/2"	1 1/4"
<b>257</b>	<b>357</b>	5/8"	1 3/8"

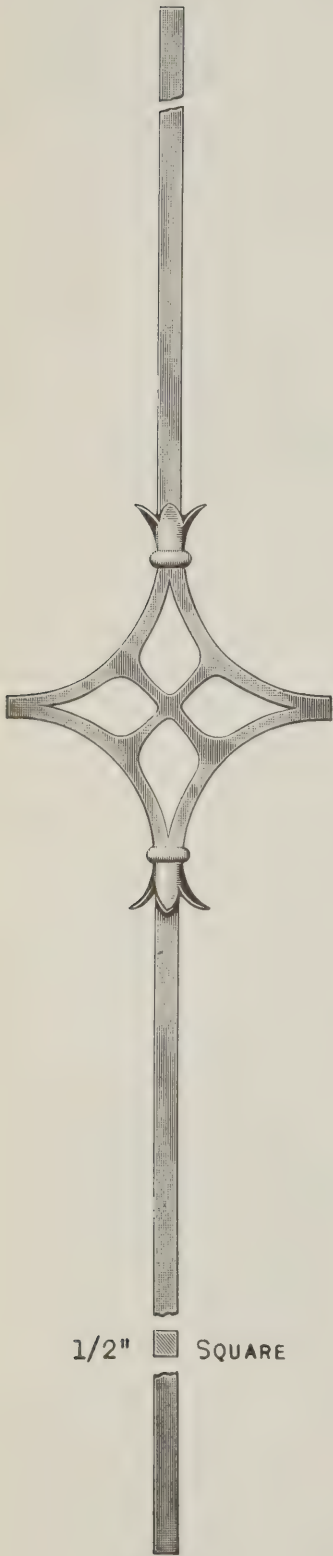
Bronze No.	Iron No.	Hole	Width
<b>259</b>	<b>359</b>	3/8"	1 1/4"
<b>260</b>	<b>360</b>	1/2"	1 1/4"
<b>261</b>	<b>361</b>	5/8"	1 3/8"

For complete listing of Collars and Bases, see pages  
22 and 23.

Spindles are shown ONE QUARTER actual size

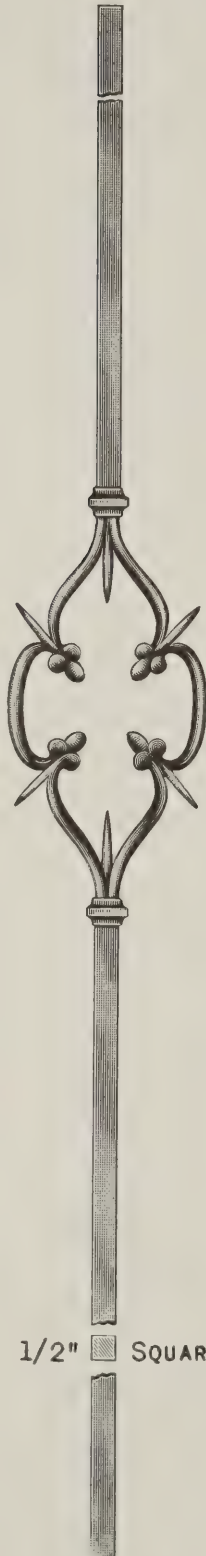
# ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")



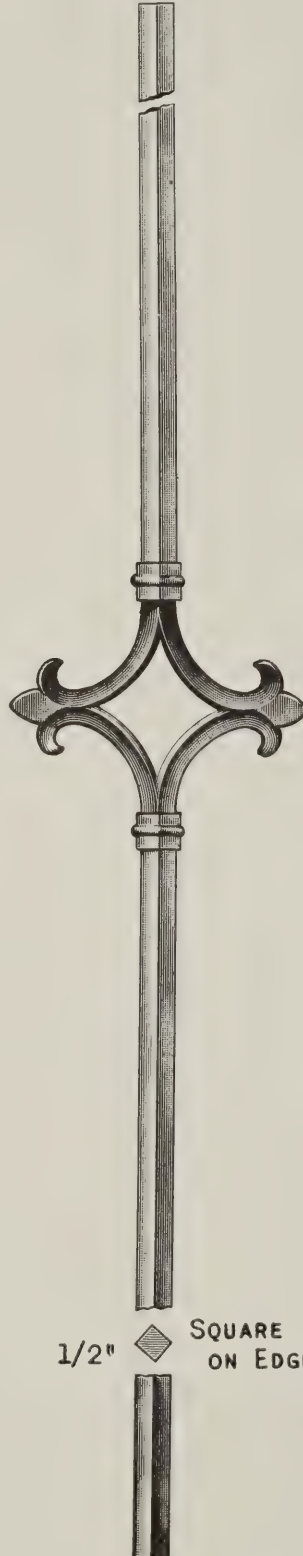
1/2"  SQUARE

No. 528



1/2"  SQUARE

No. 533



1/2"  SQUARE  
ON EDGE

No. 534



5/8"  ROUND

No. 532

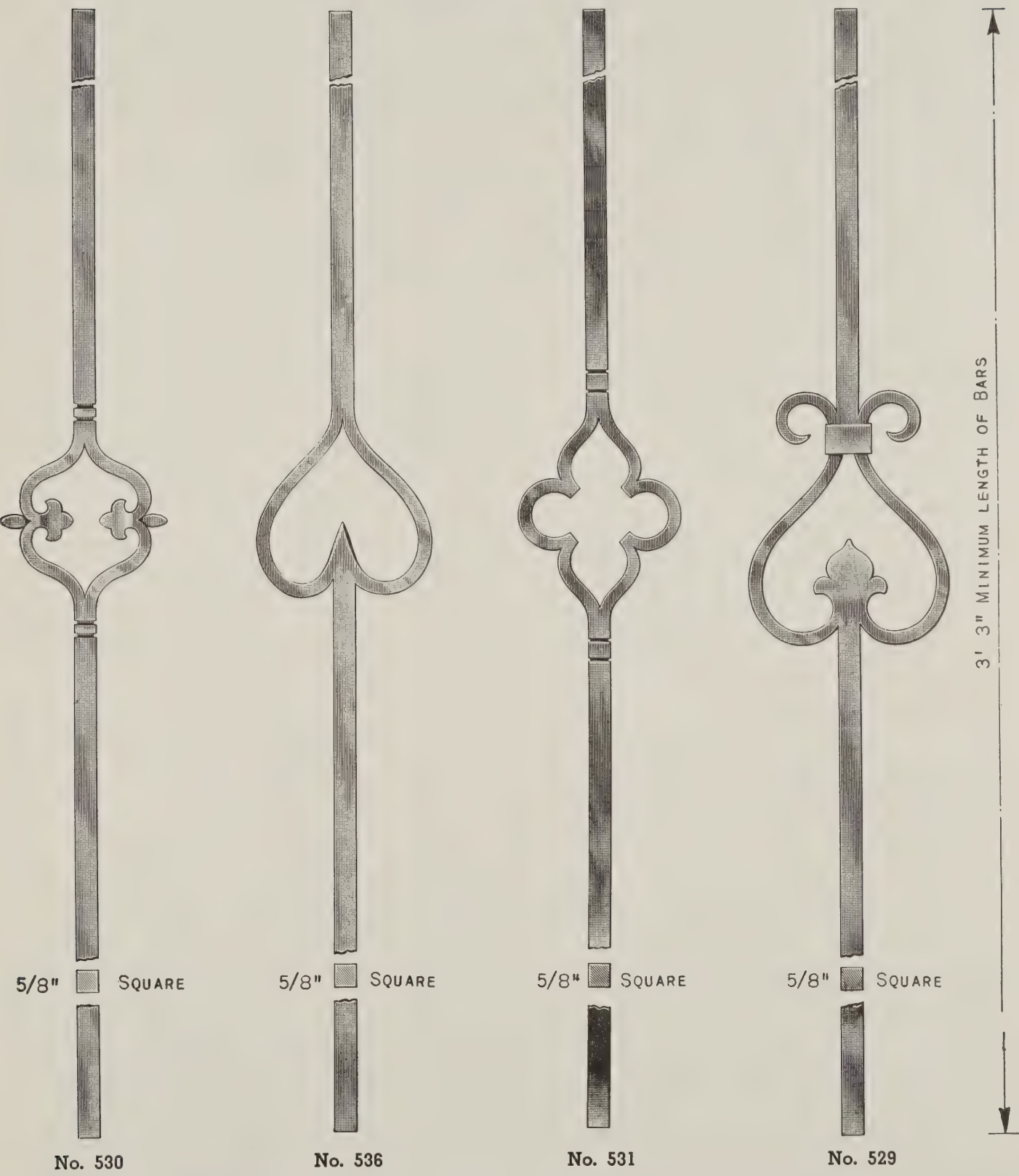
3' 3" MINIMUM LENGTH OF BARS

Ornamental Baluster Bars have forged steel centers, welded to soft steel bars.  
Bars can be welded, drilled and tapped, hammer marked, and twisted.



ORNAMENTAL BALUSTER BARS

(SCALE: 3" = 1'-0")

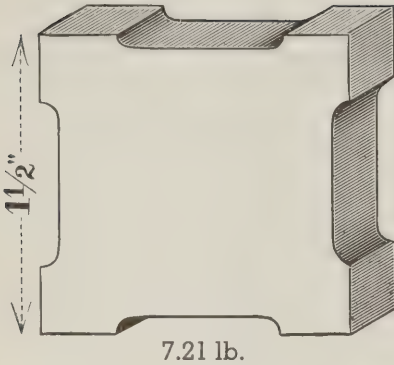


Ornamental Baluster Bars have forged steel centers, welded to soft steel bars.  
Bars can be welded, drilled and tapped, hammer marked, and twisted.

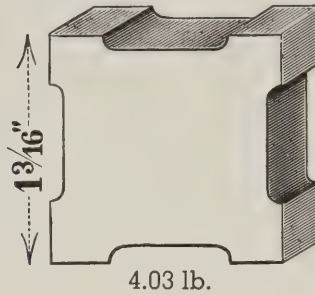
# ROLLED STEEL BALUSTER BARS

Furnished in long random lengths up to 20 feet.

No. 4185



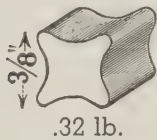
No. 4184



No. 4190



No. 4291  
Plain

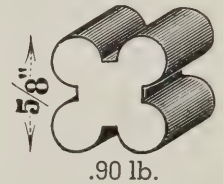


No. 4286  
Twisted

No. 4187

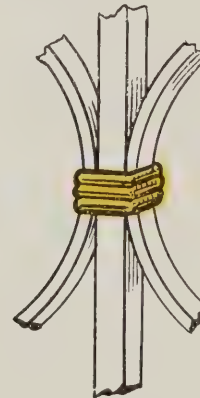
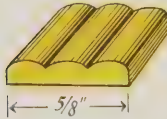


No. 4188



## BRONZE TIE BAND STRIP

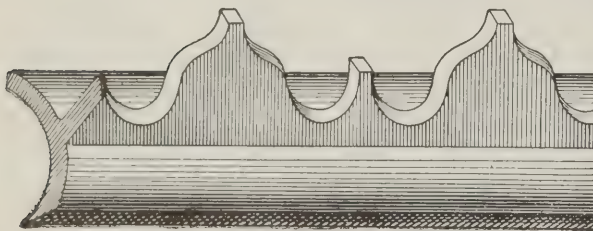
No. 6108



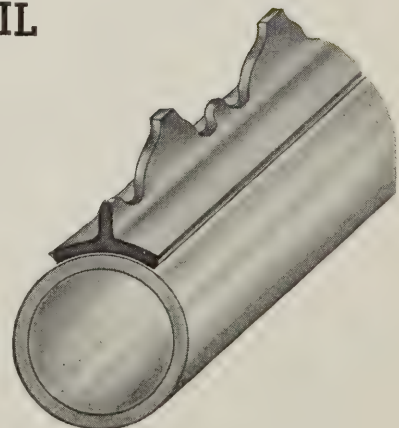
Detail showing the use of Bronze Tie Band Strip No. 6108.

Bronze Tie Bands used with wrought iron scroll work improve the appearance of railings, grilles, gates, etc. Section No. 6108 is made of a special alloy, easy to bend.

## ROLLED STEEL LOAFERS RAIL



Detail of Rolled Steel "LOAFERS" RAIL applied to round pipe.



Carried in stock in 20 ft. lengths. Will fit over pipe or on flat surfaces. Affords effective protection against lounging on fences, railings, store fronts, etc. **STRONGER AND BETTER IN APPEARANCE THAN CAST IRON.**

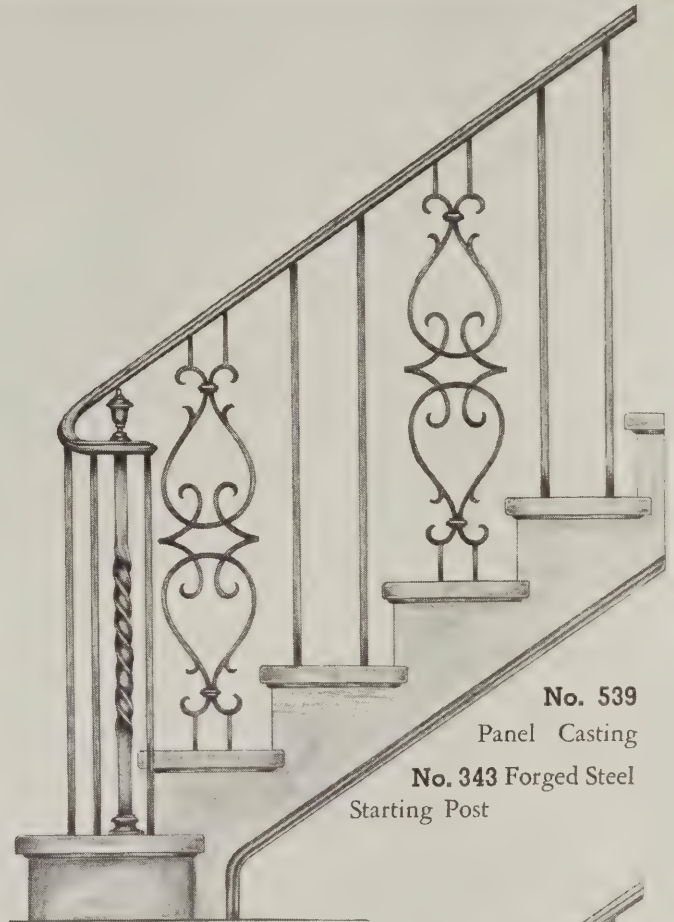


**STAIR RAILINGS CONSTRUCTED WITH ALUMINUM, BRONZE OR STEEL  
HANDRAILS AND FITTINGS, ORNAMENTAL BALUSTERS OR PANELS**



**No. 325**  
Forged Spindle

**No. 334** Cast Iron  
Starting Post



**No. 539**

Panel Casting

**No. 343** Forged Steel  
Starting Post



**No. 531**

Ornamental  
Baluster Bar

**No. 335** Cast Iron Start-  
ing Post



**No. 530**

Ornamental  
Baluster Bar

**No. 331** Forged Steel  
Starting Post

# ORNAMENTAL BALUSTER COLLARS

Illustrations are shown  
about one half actual size

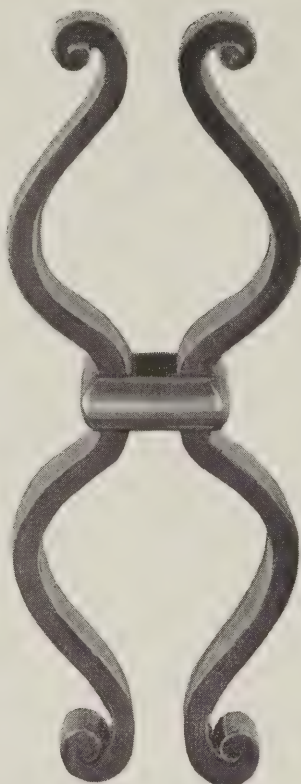


No. 544 —  $\frac{1}{2}$ " Sq. Hole

No. 545 —  $\frac{5}{8}$ " Sq. Hole

Height —  $4\frac{3}{4}$ "

Width — 3"

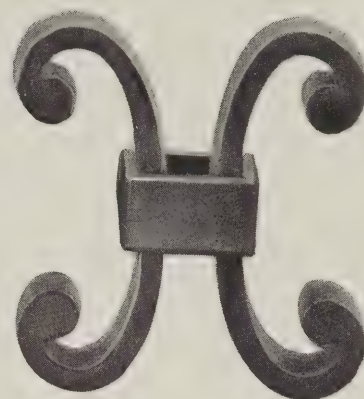


No. 546 —  $\frac{1}{2}$ " Sq. Hole

No. 547 —  $\frac{5}{8}$ " Sq. Hole

Height —  $7\frac{3}{4}$ "

Width — 3"



No. 543 —  $\frac{1}{2}$ " Sq. Hole

No. 535 —  $\frac{5}{8}$ " Sq. Hole

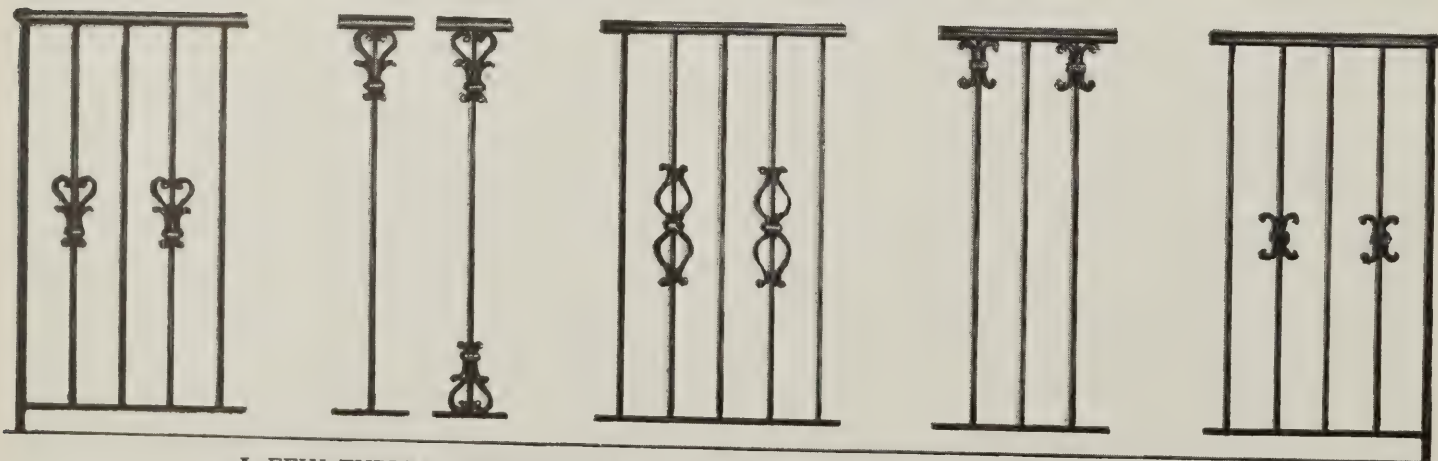
Height —  $3\frac{3}{4}$ "

Width —  $3\frac{1}{2}$ "

**ORNAMENTAL BALUSTER COLLARS ARE INEXPENSIVE  
AND HIGHLY DECORATIVE. USED SINGLY OR IN COMBINATIONS.**

EASILY APPLIED, CAN BE FASTENED BY SCREW, TACK WELD OR CALKING

**MALLEABLE IRON—NO BREAKAGE**



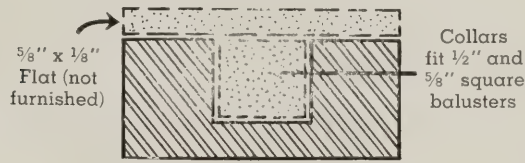
A FEW TYPICAL APPLICATIONS OF ORNAMENTAL BALUSTER COLLARS  
FOR RAILING ORNAMENTATION



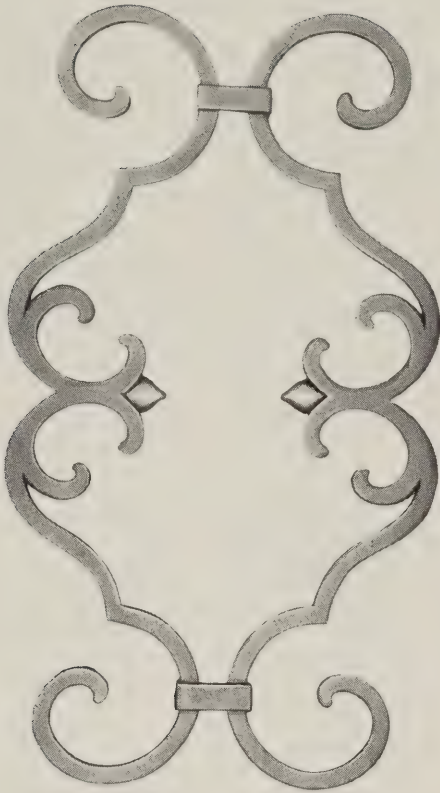
# ORNAMENTAL RAILING PANELS

Scale 3" = 1'-0"

Typical Section through Collars:



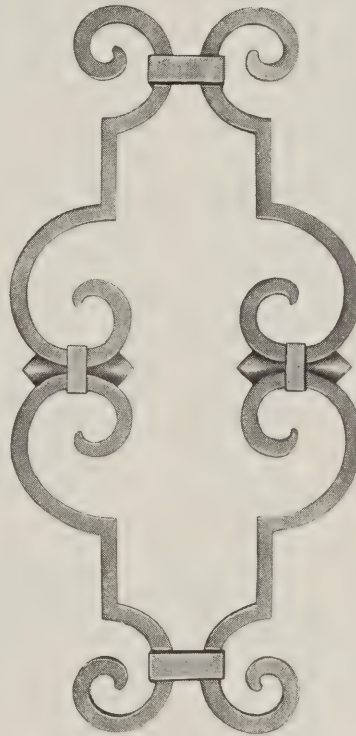
Collars may be left open or  
closed with a flat as shown.



**No. 560**  
for 1/2" sq. bar  
Height 16" — Width 8 1/2"

**No. 563**

for 5/8" sq. bar



**No. 559**

for 1/2" sq. bar

**No. 562**

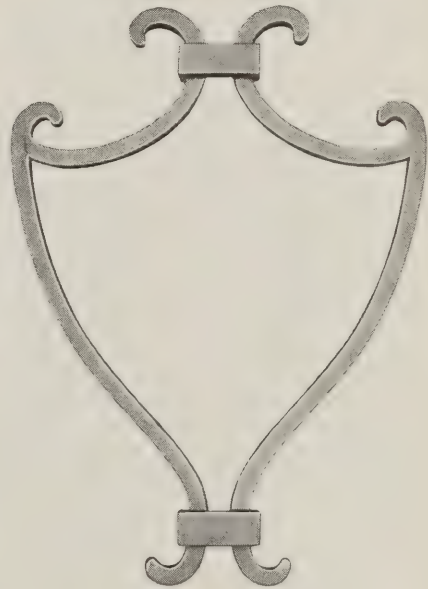
for 5/8" sq. bar

Height 15" — Width 7"

**No. 561**

**No. 564**

for 1/2" sq. bar  
Height 12" — Width 8 1/2"



Cross section of scrolls:

Nos. 559, 560, 561: 1/2" x 5/16"

Nos. 562, 563, 564: 5/8" x 5/16"

Collars are open on one side  
for easy installation. Can be  
mounted after railing has been  
completed and erected.

**MALLEABLE IRON  
NO BREAKAGE  
LOW IN COST**



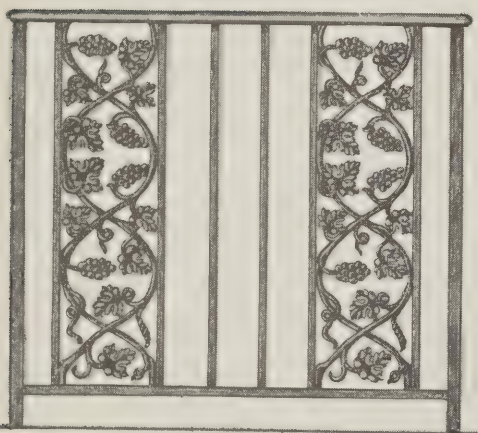


# RAILINGS CONSTRUCTED WITH ORNAMENTAL PANELS

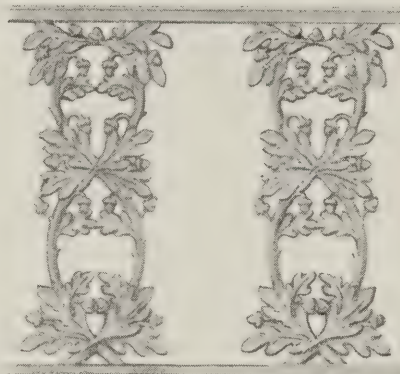


End Panels: Casting No. 520—Center Panel: Castings No. 520 and No. 521—Balusters: No. 532

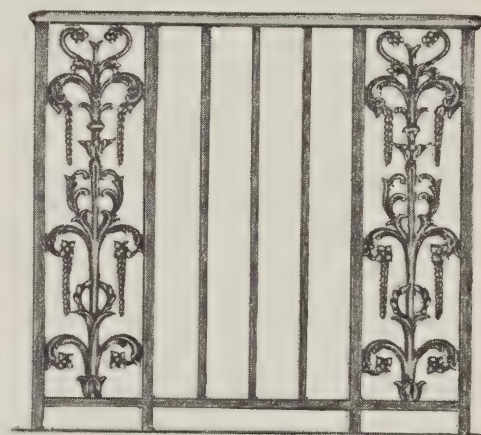
Suggested designs showing  
the use of our  
stock elements.



Panels: Casting No. 511

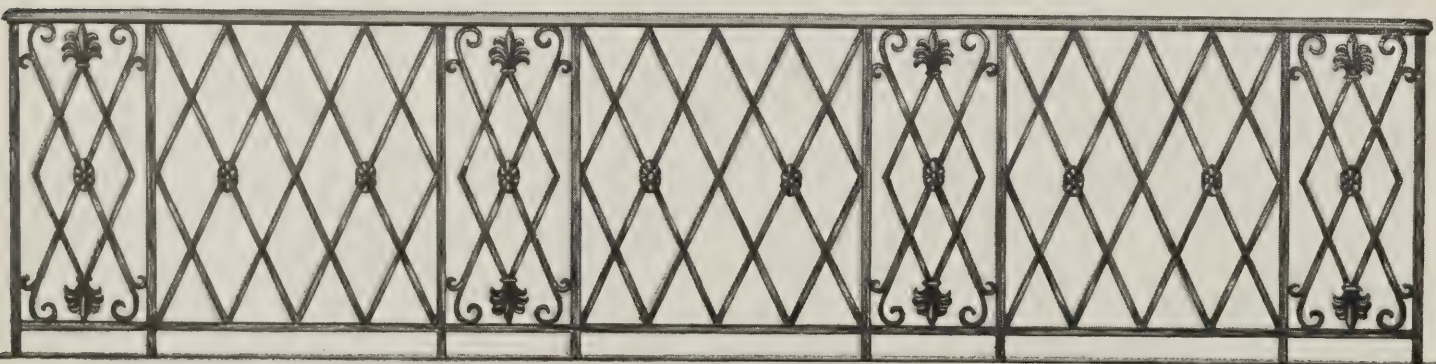


Panels: Casting No. 558



Panels: Casting No. 517

We furnish materials only and  
do not fabricate or assem-  
ble complete railings.



Panels: Castings No. 540 and No. 541



# ORNAMENTAL DOUBLE FACED CASTINGS

MALLEABLE IRON — NO BREAKAGE

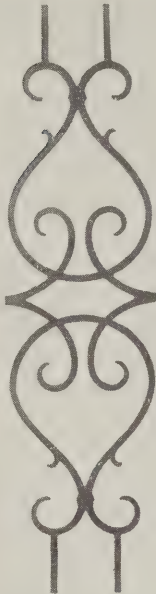
SCALE 1" = 1'-0"



**No. 538**  
Height — 33"  
Width — 8 $\frac{5}{8}$ "  
Cross Section —  
 $\frac{5}{8}$ "x7/16"



**No. 558**  
Height — 28"  
Width — 11 $\frac{1}{2}$ "



**No. 539**  
Height — 34"  
Width — 8 $\frac{1}{2}$ "  
Cross Section —  
 $\frac{5}{8}$ "x7/16"



**No. 518**  
Height — 35 $\frac{1}{2}$ "  
Width — 7 $\frac{5}{8}$ "



**No. 517**  
Height — 34 $\frac{1}{2}$ "  
Width — 7 $\frac{5}{8}$ "

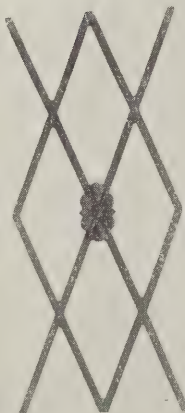


**No. 537**  
Height — 37"  
Width — 6 $\frac{3}{4}$ "  
Cross Section —  
Scroll:  $\frac{1}{2}$ "x5/16"  
Ends:  $\frac{1}{2}$ "x $\frac{1}{2}$ "

Ornamental Double Faced Castings are clean in appearance. They may be used singly, in repetition, or in various combinations; also alternating with forged spindles or ornamental balusters. Malleable Iron Castings can be bent, hammer marked, welded or brazed. For additional Ornamental Castings, see "Treillage" Section.



**No. 519**  
Height — 32"  
Width — 7 $\frac{5}{8}$ "



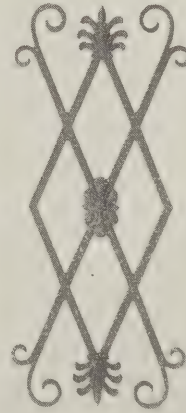
**No. 540**  
Height — 24"  
Width — 10 $\frac{5}{8}$ "  
Cross Section —  $\frac{5}{8}$ "x $\frac{1}{2}$ "



**No. 521**  
Height — 24 $\frac{7}{8}$ "  
Width — 12"



**No. 520**  
Height — 24 $\frac{7}{8}$ "  
Width — 6 $\frac{7}{16}$ "



**No. 541**  
Height — 24"  
Width — 10 $\frac{5}{8}$ "  
Cross Section —  $\frac{5}{8}$ "x $\frac{1}{2}$ "




**No. 511**  
Height — 31"  
Width — 8 $\frac{1}{4}$ "





# TREILLAGE



 ORNAMENTAL double faced castings in this section are made of high grade malleable iron. They will not break under ordinary conditions and will withstand considerable abuse. They may be bent cold to meet individual conditions such as may occur on curved railings, etc. They may be welded into the frame work and they can be hammered or given any type of finish.

Castings are clean in appearance with every detail executed perfectly.

---

## Approximate Weights of Double Faced Ornamental Castings:

No. 511	11.2 lbs.	No. 525	4.2 lbs.
No. 512	4.0 lbs.	No. 526	2.6 lbs.
No. 513	25.2 lbs.	No. 527	3.7 lbs.
No. 514	3.4 lbs.	No. 537	4.4 lbs.
No. 515	8.7 lbs.	No. 538	7.4 lbs.
No. 515-B	4.9 lbs.	No. 539	8.2 lbs.
No. 516	3.7 lbs.	No. 540*	9.0 lbs.
No. 517	12.0 lbs.	No. 541*	10.0 lbs.
No. 518	11.3 lbs.	No. 550	6.7 lbs.
No. 519	12.5 lbs.	No. 551	2.4 lbs.
No. 520*	10.5 lbs.	No. 552	4.3 lbs.
No. 521*	16.0 lbs.	No. 555	7.3 lbs.
No. 522*	8.4 lbs.	No. 556	7.9 lbs.
No. 523*	6.9 lbs.	No. 557	12.1 lbs.
No. 524	4.3 lbs.	No. 558	14.0 lbs.

Items marked \* can also be furnished in aluminum



A typical application showing the use of castings No. 520 to No. 527.

For details of castings see opposite page.

A typical application showing the use of castings No. 511 to No. 515.

For details of castings, see page 40.



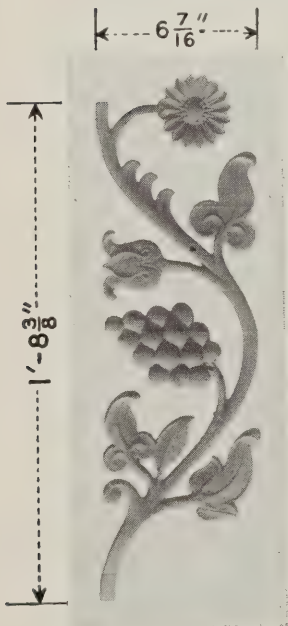


# ORNAMENTAL DOUBLE FACED CASTINGS

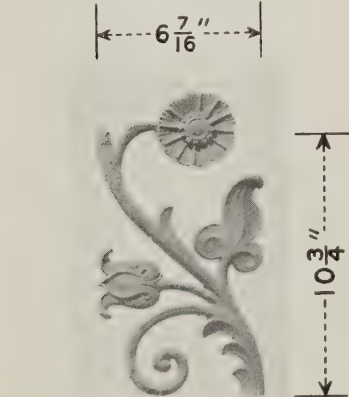
SCALE: 1½" = 1'-0"



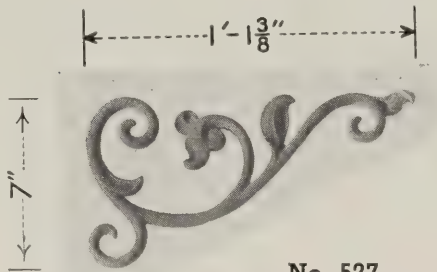
No. 525  
End Panel



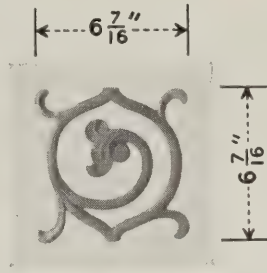
No. 522  
Continuous Design



No. 524  
Starting Panel



No. 527  
Corner Bracket



No. 526  
Corner Rosette

## MALLEABLE IRON – NO BREAKAGE

A series of related designs which may be combined to meet required dimensions and conditions. See illustration page 38.

For approximate weights of castings, see page 37



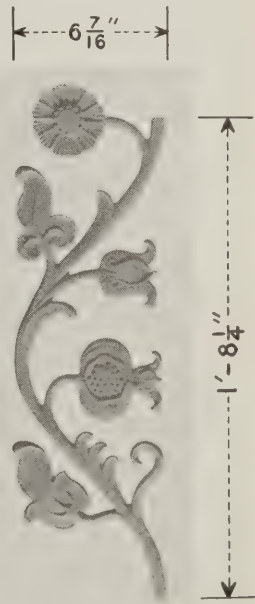
No. 521  
Railing Panel



No. 520  
Railing Panel



No. 532  
Baluster  
5/8" round ends



No. 523  
Continuous Design

Castings No. 520 and No. 521 are suited for railing panels.

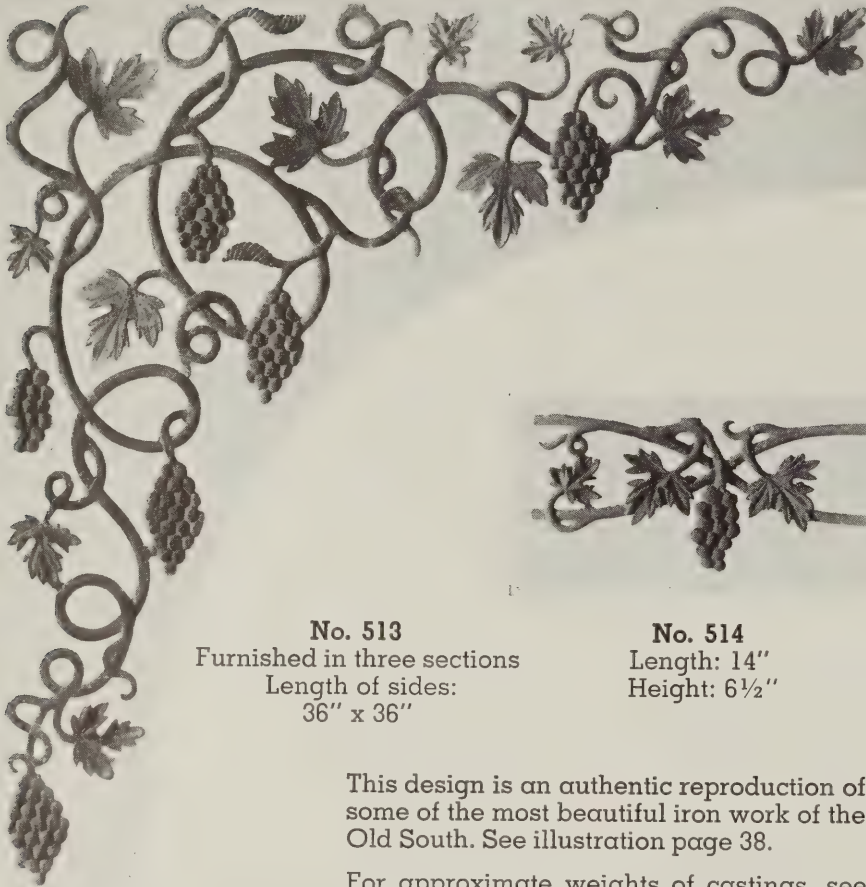
Castings No. 522 and No. 523 may be repeated or alternated.

Castings No. 524 and No. 525 are used as starting and end panels, together with Castings No. 522 and No. 523.

All castings are reversible.

# ORNAMENTAL DOUBLE FACED CASTINGS

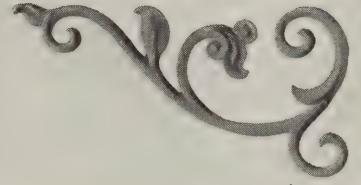
SCALE:  $1\frac{1}{2}" = 1' - 0"$



**No. 513**  
Furnished in three sections  
Length of sides:  
36" x 36"



**No. 514**  
Length: 14"  
Height: 6½"



**No. 527**  
Length: 13¾"  
Height: 7"



**No. 512**  
Height: 8¼"  
Width: 8¼"

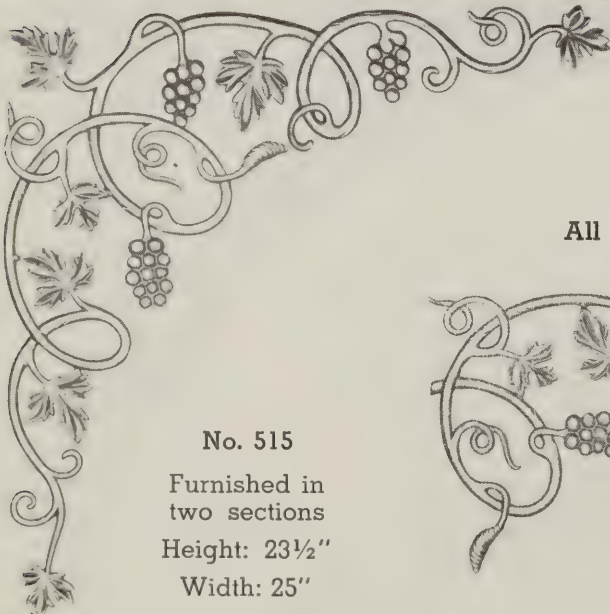
This design is an authentic reproduction of some of the most beautiful iron work of the Old South. See illustration page 38.

For approximate weights of castings, see page 37.

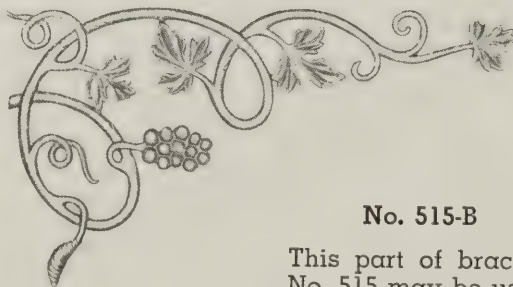
Malleable Iron

No Breakage

All Castings are Reversible

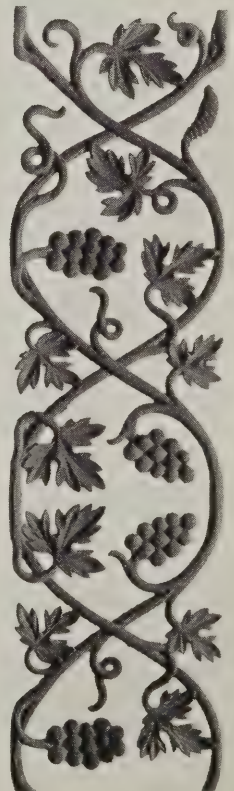


**No. 515**  
Furnished in two sections  
Height: 23½"  
Width: 25"



**No. 515-B**  
This part of bracket No. 515 may be used as a separate piece.

Height: 11½"  
Width: 21"



**No. 511**  
Height: 31"  
Width: 8¼"



# ORNAMENTAL DOUBLE FACED CASTINGS

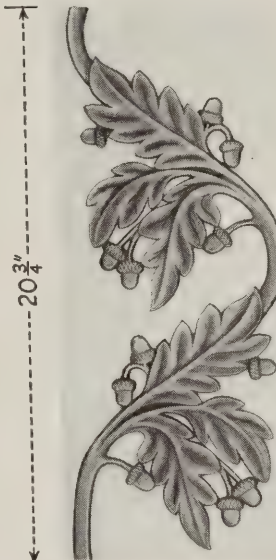
Malleable Iron

Scale:  $1\frac{1}{2}" = 1'$

20 $\frac{3}{4}"$

11 $\frac{1}{2}"$

9 $\frac{1}{4}"$



No. 555  
Continuous Design

28"



No. 558  
Railing Panel

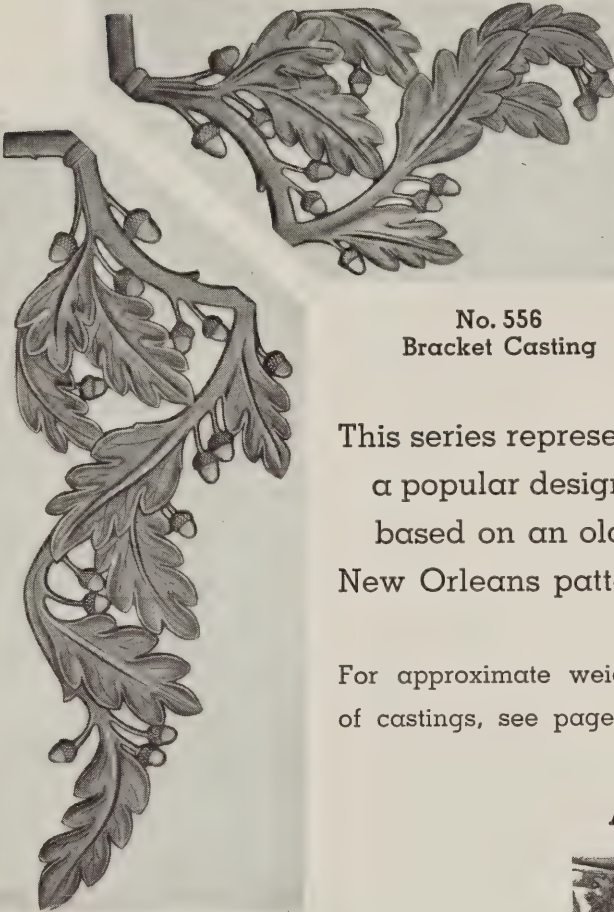
20 $\frac{3}{4}"$

No. 556  
Bracket Casting

This series represents  
a popular design  
based on an old  
New Orleans pattern

For approximate weights  
of castings, see page 37.

31 $\frac{3}{4}"$



No. 557  
Bracket Casting

ALL CASTINGS ARE REVERSIBLE

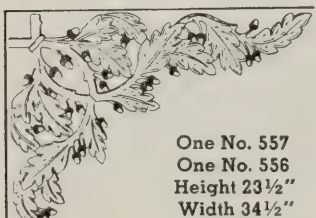
Details below show assembly of castings  
No. 556 and No. 557 into Brackets of various sizes.



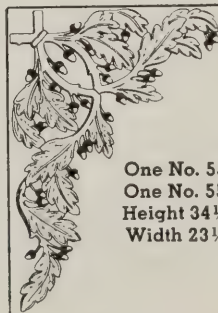
Two No. 557  
Height 34 $\frac{1}{2}"$   
Width 34 $\frac{1}{2}"$



Two No. 556  
Height 23 $\frac{1}{2}"$   
Width 23 $\frac{1}{2}"$



One No. 557  
One No. 556  
Height 23 $\frac{1}{2}"$   
Width 34 $\frac{1}{2}"$



One No. 556  
One No. 557  
Height 34 $\frac{1}{2}"$   
Width 23 $\frac{1}{2}"$



A TYPICAL APPLICATION OF CASTINGS NO. 555 TO NO. 558



# ORNAMENTAL DOUBLE FACED CASTINGS

SCALE  $1\frac{1}{2}" = 1'-0"$



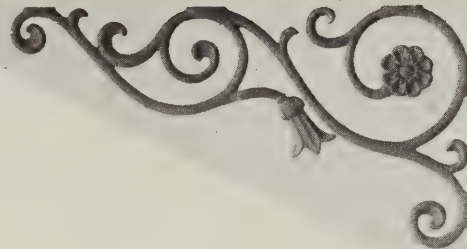
No. 550

Height . . . 34"  
Width . . .  $7\frac{1}{8}"$



No. 551

Height . . .  $7\frac{1}{8}"$   
Width . . .  $7\frac{1}{8}"$



No. 552

Length . . . 19"  
Height . . . 10"

A series of designs to produce a graceful scroll-like effect. Although delicate and light in appearance these castings have ample strength for all practical purposes and are easily assembled.

No. 551 Casting may be used for corner terminations or railing panels.

No. 552 Casting is also adaptable as a hanging sign or lamp bracket.

MALLEABLE IRON

•

NO BREAKAGE

•

ALL CASTINGS  
ARE REVERSIBLE

For approximate weights  
of castings, see page 37.



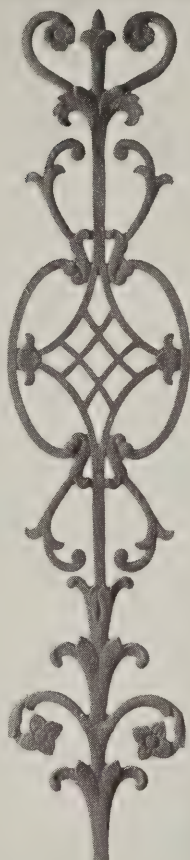


# ORNAMENTAL DOUBLE FACED CASTINGS

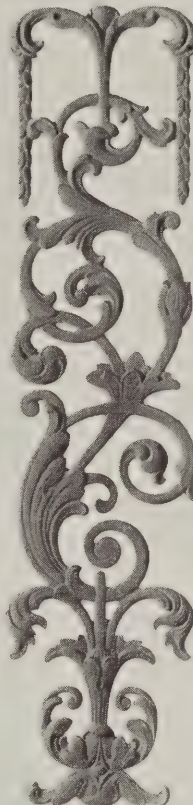
SCALE:  $1\frac{1}{2}'' = 1' - 0''$



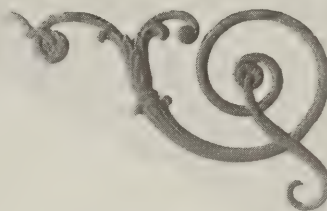
**No. 517**  
Height:  $34\frac{1}{2}''$   
Width:  $7\frac{5}{8}''$



**No. 518**  
Height:  $35\frac{1}{2}''$   
Width:  $7\frac{5}{8}''$



**No. 519**  
Height:  $32''$   
Width:  $7\frac{5}{8}''$



**No. 516**  
Length:  $13\frac{1}{4}''$   
Height:  $8\frac{1}{4}''$

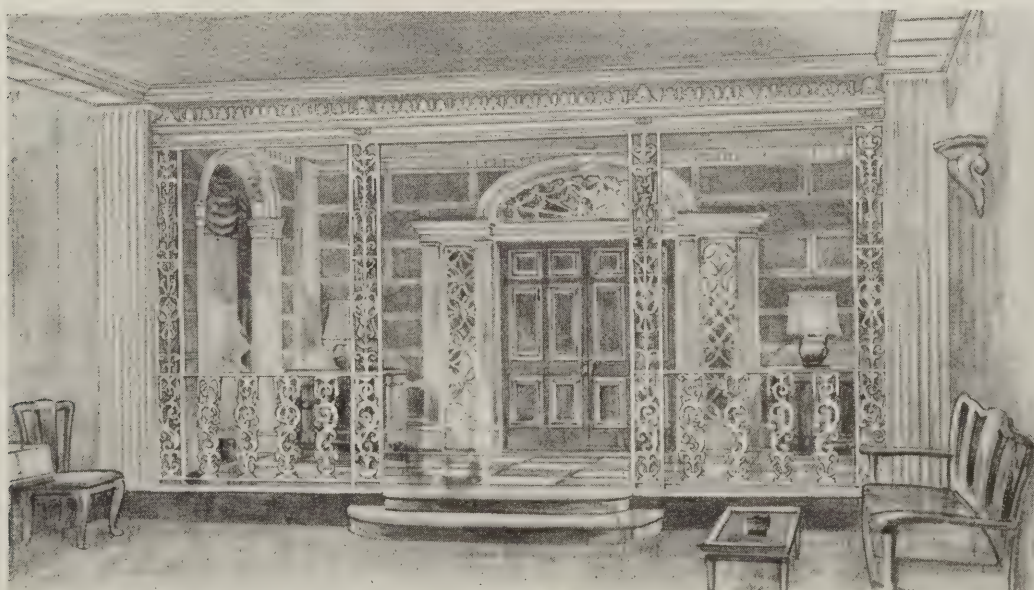
This series of Castings represents an authentic old design. The three panels can be used in combination, as shown below. They also make attractive railing panels.

All castings are reversible.

For approximate weights of castings, see page 37.

**MALLEABLE IRON**

**NO BREAKAGE**



## RAILING DESIGN



### SPECIFICATION

End Panel and Center Panel — Casting No. 538  
Ornamental Baluster — No. 529

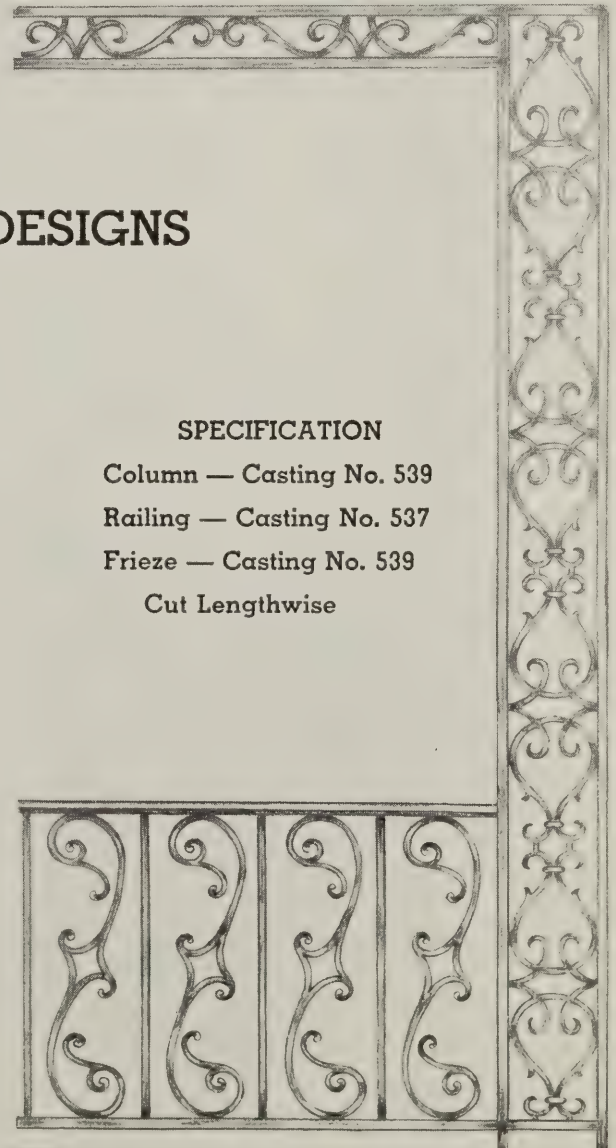
## TREILLAGE DESIGNS

### SPECIFICATION

Column — Casting No. 541  
Railing — Casting No. 540  
Frieze — Rosette No. 554

### SPECIFICATION

Column — Casting No. 539  
Railing — Casting No. 537  
Frieze — Casting No. 539  
Cut Lengthwise

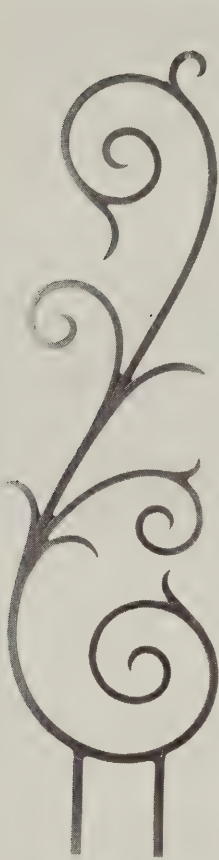




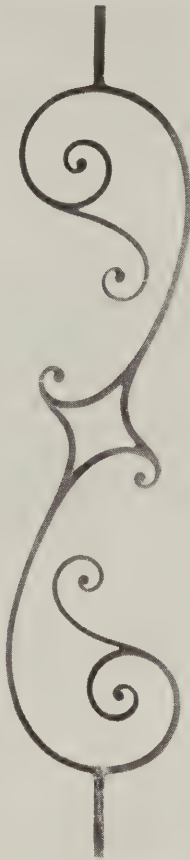
# ORNAMENTAL DOUBLE FACED CASTINGS

MALLEABLE IRON • NO BREAKAGE

SCALE: 1½" = 1'-0"



No. 538



No. 537



No. 539



No. 537



No. 538

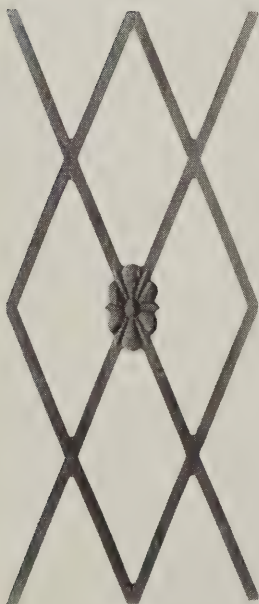
## DIMENSIONS

Casting No.	Height	Width	Cross Section
537	37"	6¾"	{ Scroll: ½" x 5/16" Ends: ½" x ½"
538	33"	8⅝"	
539	34"	8½"	5/8" x 7/16"
540	24"	10⅝"	5/8" x ½"
541	24"	10⅝"	5/8" x ½"

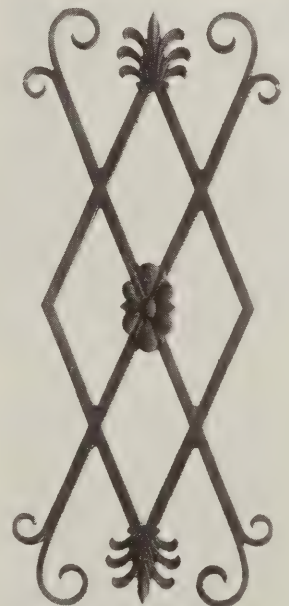
These castings are reproductions of attractive wrought iron designs.

Castings No. 537, No. 538 and No. 539 can be cut down to the required length without interfering with the design.

Castings No. 540 and No. 541 can be used together in the same panel.



No. 540

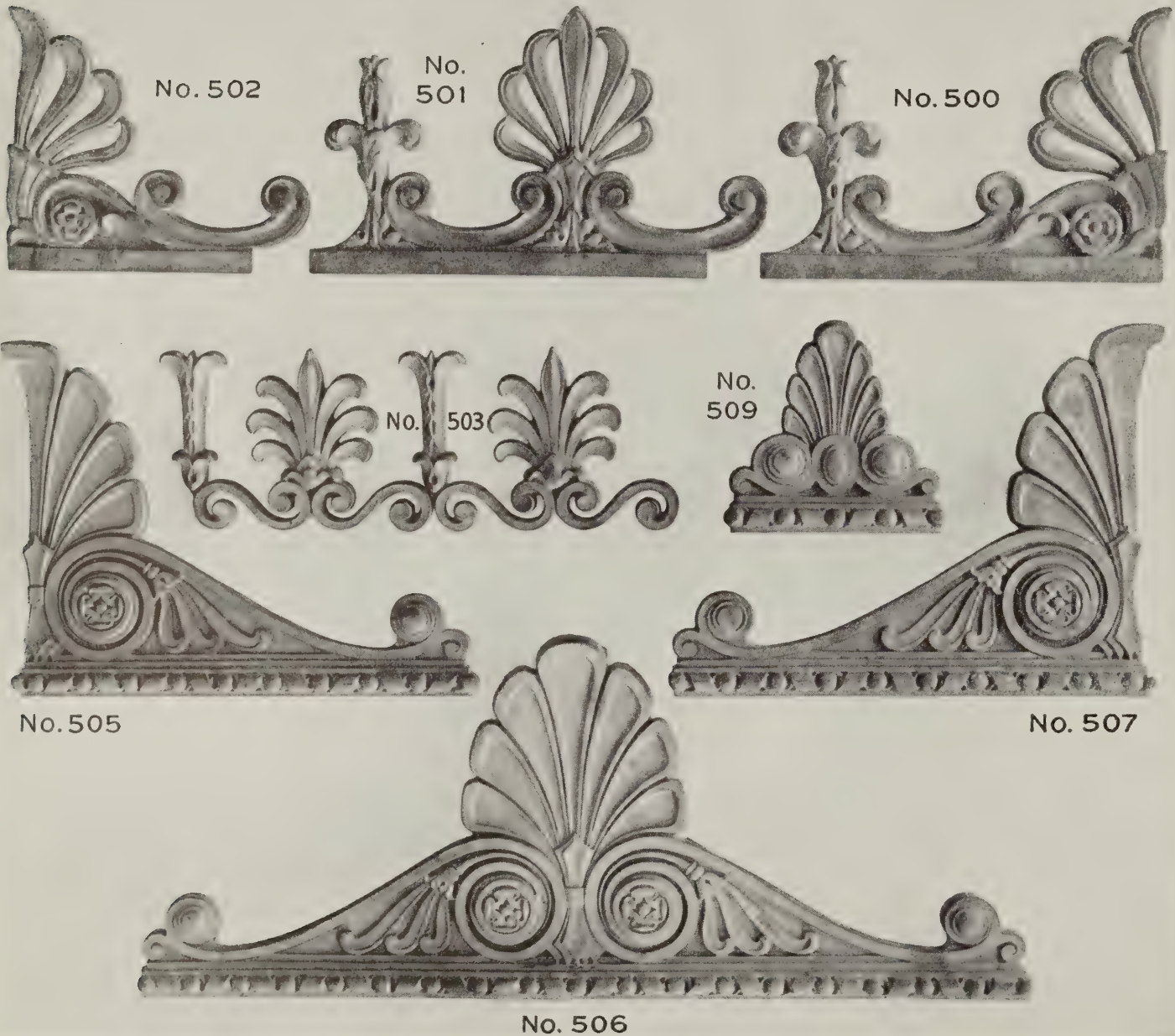


No. 541

For approximate weights of castings, see page 37.

# CAST IRON CRESTINGS

For the Construction of Marquises, Awning Boxes, Show Cases, Etc.



Illustrations shown are ONE-QUARTER actual size

Corners Nos. 500 and 502 and Corners Nos. 505 and 507 are cast on a mitre and will form a perfect right or left corner. Corners Nos. 505 and 507 and Centers Nos. 506 and 509 have lugs in back for fastening. Crestings Nos. 500, 501 and 502 as well as 503 form continuous interlocking designs. Crestings Nos. 505, 506, 507, 509 can be used as a continuous design or they may be spaced at intervals.

Our Cast Iron Crestings are a Finished Product of Superb Quality

NO PATTERNS

NO WAITING

NO FINISHING



# SADDLES – NOSINGS

•

ALL the shapes described in this section are carried in stock in random lengths of about 20 feet, except as noted. They can also be furnished cut to specified lengths.

Door Sills and Elevator Saddles of any length, width or shape can be constructed with our sections. The bars are straight, true and free from imperfections. The sectional saddles are easily assembled, eliminating costly patterns, delays and finishing operations.

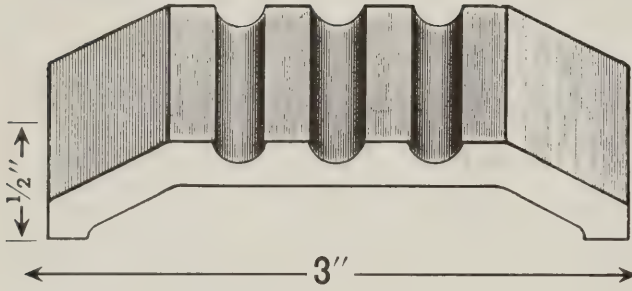
---

## Subjects covered in this section:

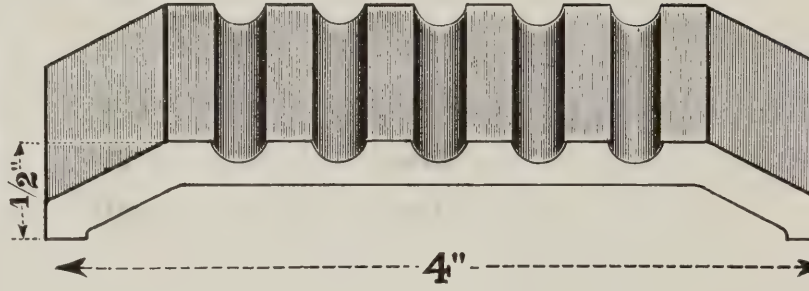
	Page No.
<b>Aluminum</b> Door Saddles .....	50, 51
Weatherstrip Saddle .....	52
Step Nosings .....	63
Aluminum Screws .....	50
 <b>Bronze</b> Door Saddles .....	49, 50
Weatherstrip Saddles .....	52
Roof Door Saddle .....	52
Assembled Saddle Sections .....	55, 56
Elevator Saddle Sections .....	60, 61
Step Nosings .....	63
Rivets .....	60
Brass Screws .....	49
 <b>Steel</b> Door Saddles .....	48
Assembled Saddle Sections .....	53
Elevator Saddle Sections .....	59
Step Nosings .....	62, 63
Curb Bar .....	62

# ROLLED STEEL DOOR SADDLES

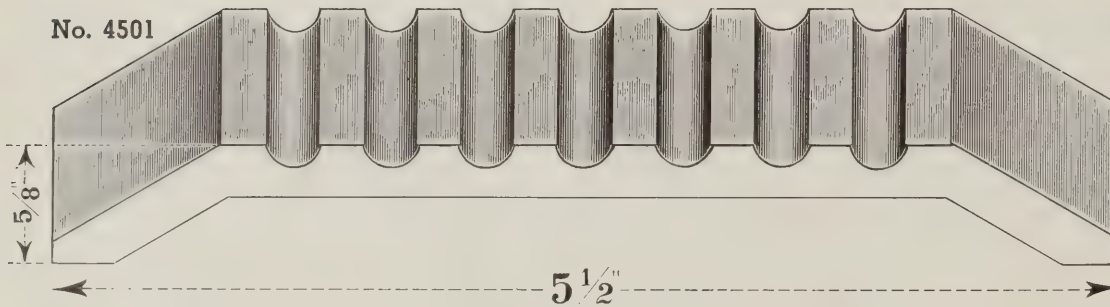
No. 4504



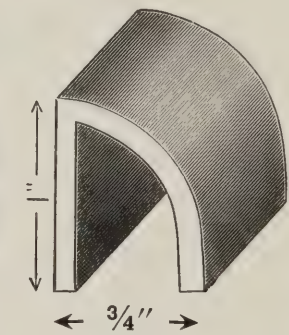
No. 4503



No. 4501

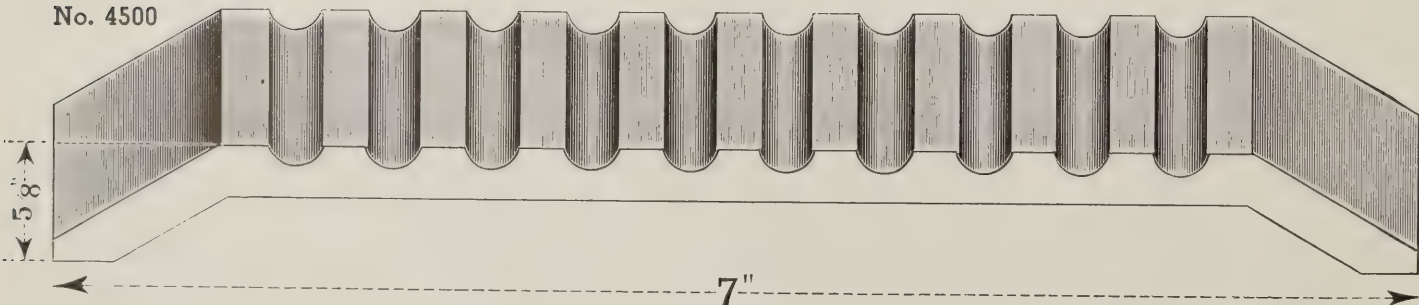


No. 4487



Bathroom Door Saddle

No. 4500



## STRONGER AND CHEAPER THAN CAST IRON

Rolled Steel Door Saddles are specified for low cost public housing projects.

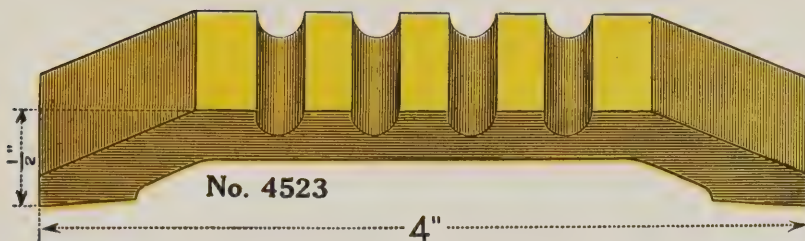
Carried in stock in long straight bars. Can also be furnished cut to specified lengths.

## EXTRA WIDE DOOR SADDLES

Rolled Steel Door Saddles of any desired width may be assembled from sections described on page 53.



# ARCHITECTURAL BRONZE DOOR SADDLES

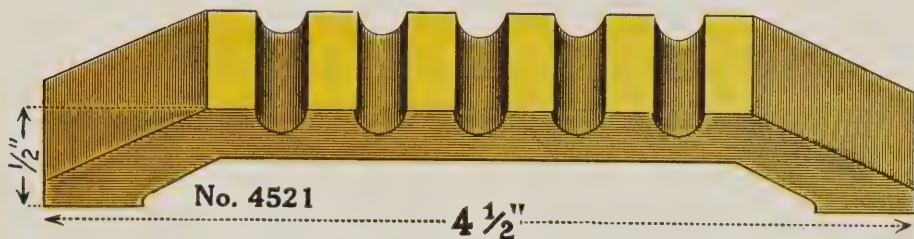


## BRASS MACHINE SCREWS FLAT HEAD

1/4" x 1" x 20 threads p. in.  
1/4" x 1 1/4" x 20 threads p. in.  
1/4" x 1 1/2" x 20 threads p. in.



We can also supply Expansion Bolts required for installing saddles.



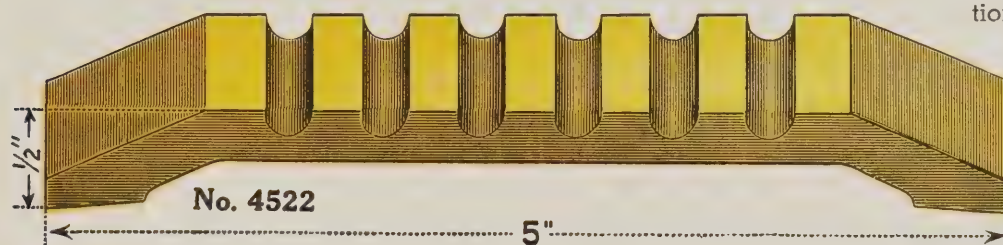
## BRASS WOOD SCREWS FLAT HEAD

1 1/2" long x No. 14  
2" long x No. 14

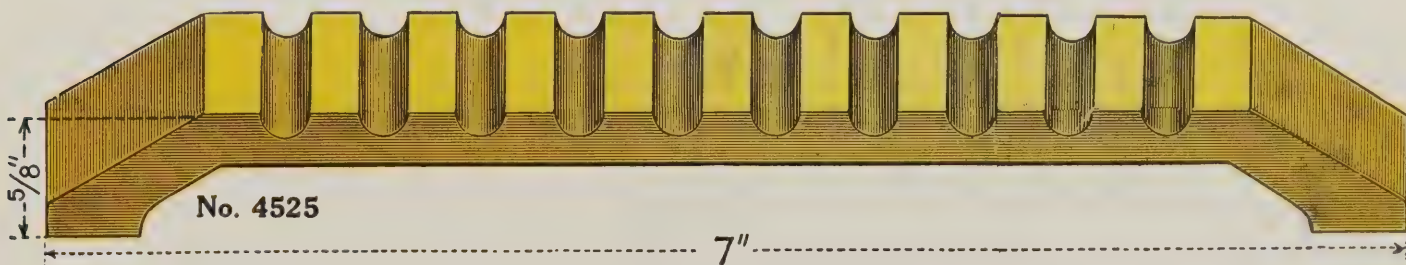
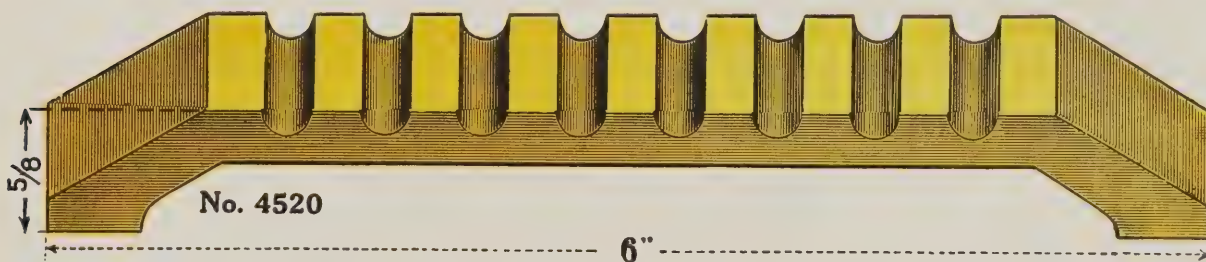


## EXTRA WIDE SADDLES

Bronze Door Saddles of any desired width may be assembled from sections described on pages 55 and 56.



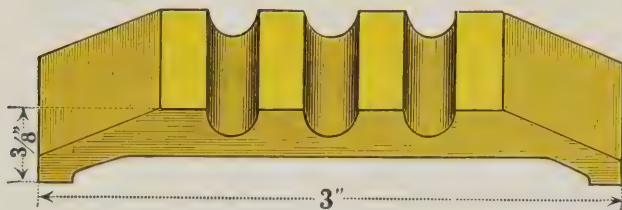
For smaller sizes and for smooth top saddles, see page 50.



Carried in stock in long, straight bars. Can also be furnished cut to specified lengths.

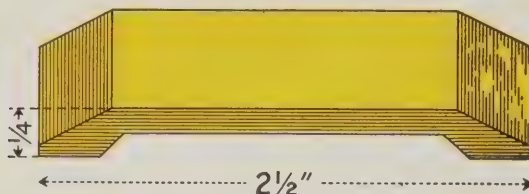
## ARCHITECTURAL BRONZE DOOR SADDLES

No. 4524



Architectural Bronze Door Saddles are free from imperfections. A highly polished finish can be obtained by buffing.

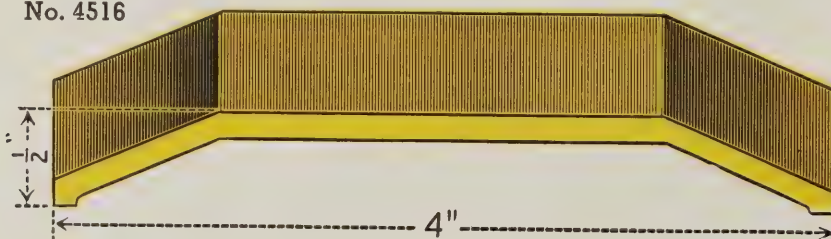
No. 4510



For larger sizes, see page 49.

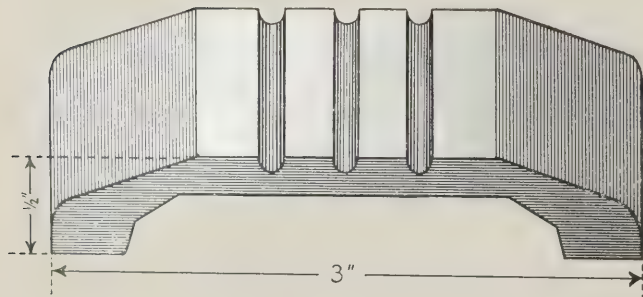
Carried in stock in long straight bars. Can also be furnished cut to specified lengths.

No. 4516

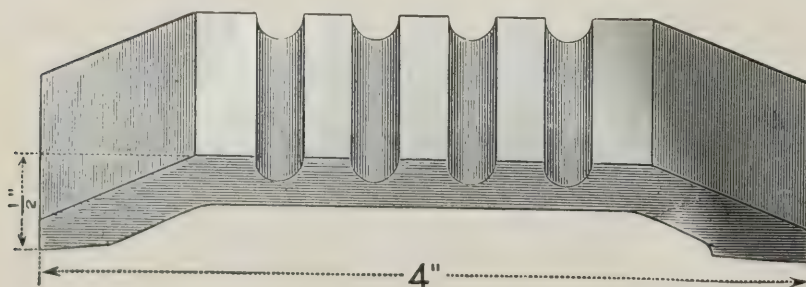


## ARCHITECTURAL ALUMINUM DOOR SADDLES

No. 6924



No. 6923



### ALUMINUM MACHINE SCREWS FLAT HEAD

1/4" x 1" x 20 threads p. in.

1/4" x 1 1/4" x 20 threads p. in.

1/4" x 1 1/2" x 20 threads p. in.



We can also supply Expansion Bolts required for installing saddles.

### ALUMINUM WOOD SCREWS FLAT HEAD

1 1/2" long x No. 16

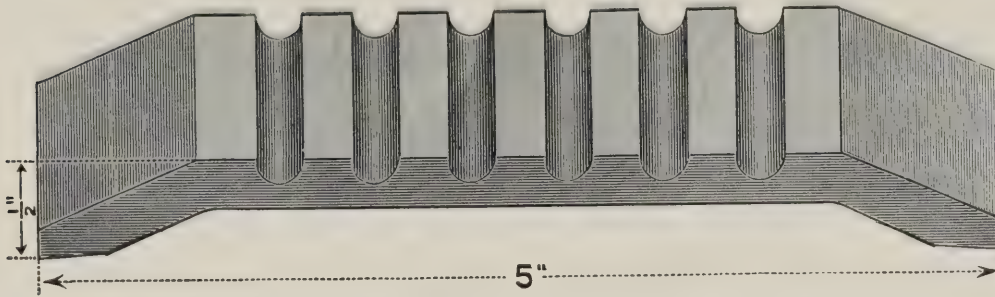
2" long x No. 16





# ARCHITECTURAL ALUMINUM DOOR SADDLES

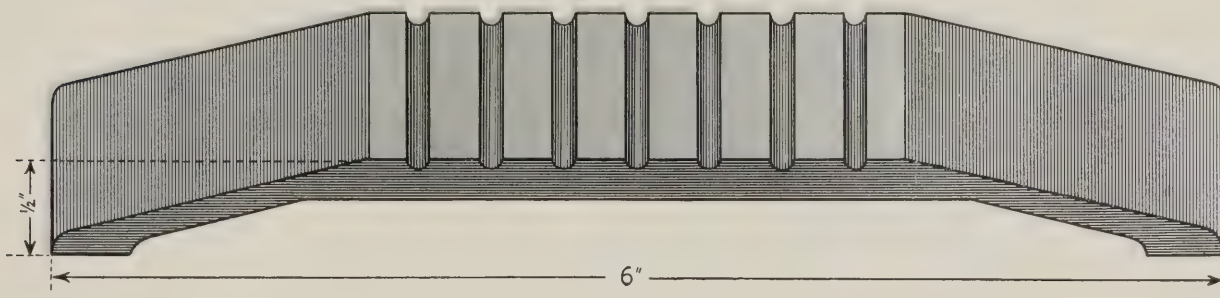
No. 6922



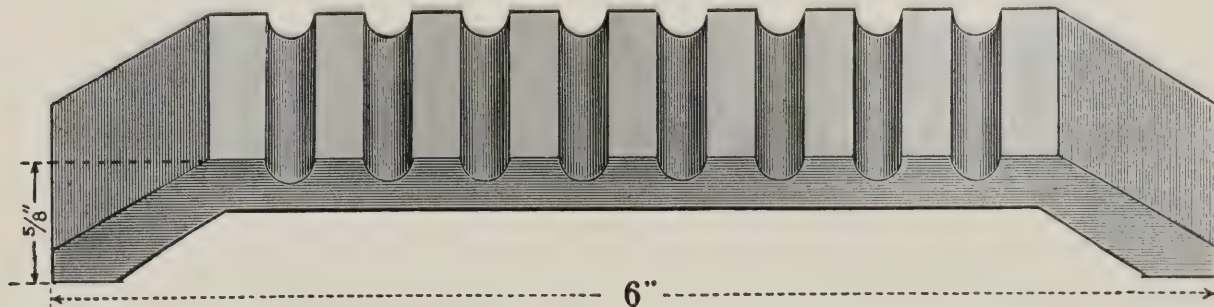
Aluminum Door Saddles are made from a tough, heat treated, wear resisting Aluminum Alloy. Surface is free from imperfections. A highly polished finish can be produced by buffing.

Carried in stock in long straight bars. Can also be furnished cut to specified lengths.

No. 6921

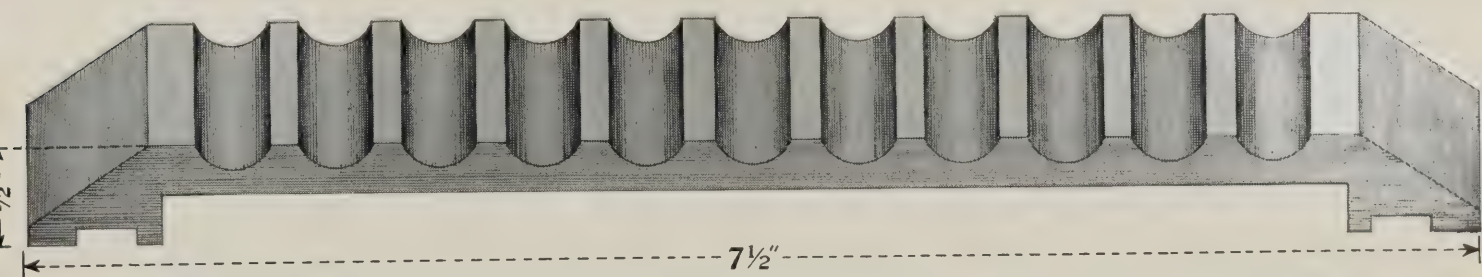


No. 6920



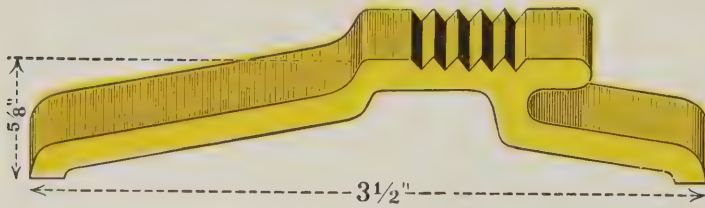
No. 6919 7 1/2" Wide, 1/2" High.

Sufficiently wide to cut out for floor hinge boxes.

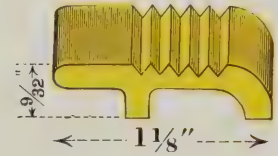


# WEATHERSTRIP DOOR SILLS

No. 4590 ARCHITECTURAL BRONZE



No. 4598 ARCHITECTURAL BRONZE

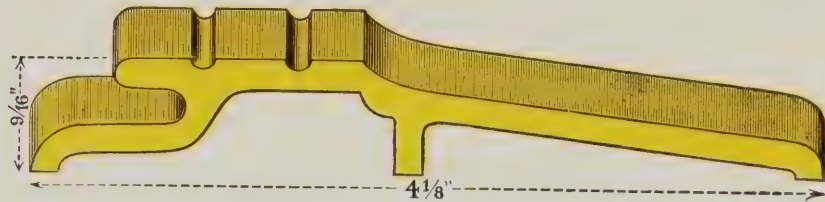


May be used alone or with other saddle sections.

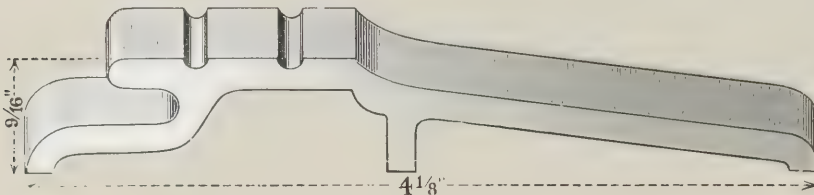


Zinc Interlocking Hook Strip can be furnished from stock to be used with sills No. 4590, No. 4591, No. 4593, No. 4598 and No. 6991.

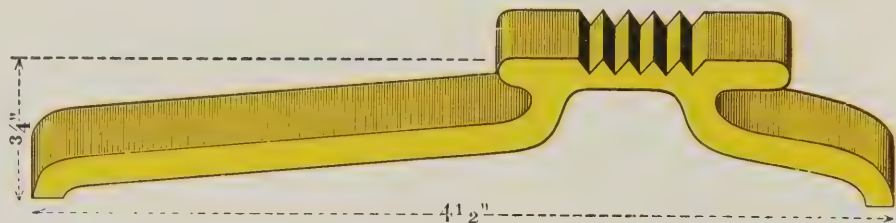
No. 4591 ARCHITECTURAL BRONZE



No. 6991 ARCHITECTURAL ALUMINUM

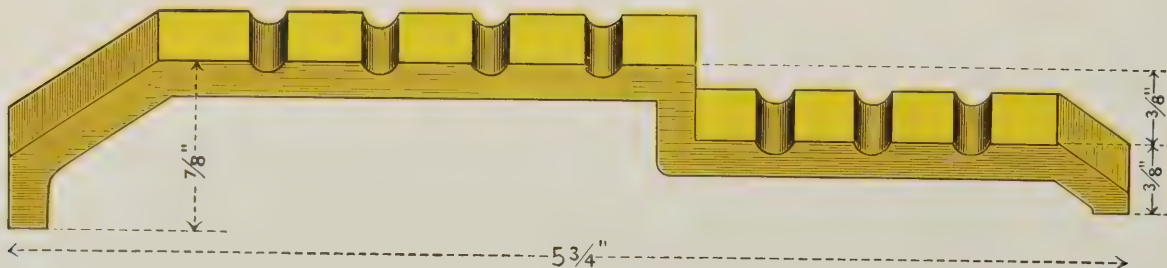


No. 4593 ARCHITECTURAL BRONZE



No. 4597 ROOF DOOR SADDLE

ARCHITECTURAL BRONZE



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTH

NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

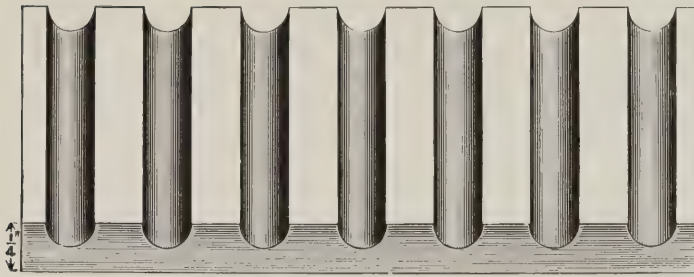
NO WAITING

NO STRAIGHTENING  
NO ERRORS



# Sections for Assembled Door Saddles Rolled Steel

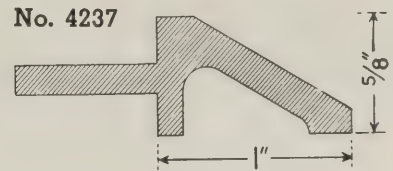
## FLAT FLUTED SECTIONS



- |                   |                   |
|-------------------|-------------------|
| No. 4540—1½" wide | No. 4544—3½" wide |
| No. 4541— 2" wide | No. 4545— 4" wide |
| No. 4542—2½" wide | No. 4546—4½" wide |
| No. 4543— 3" wide |                   |

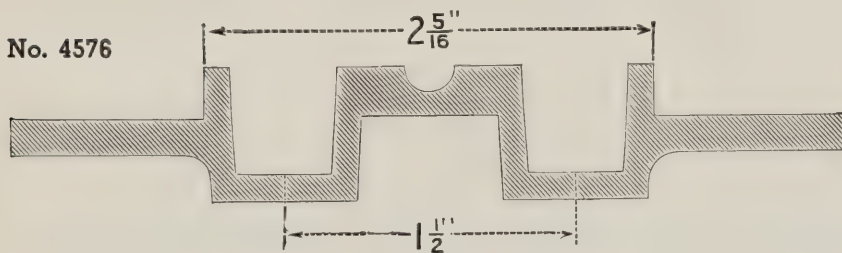
For full size details of Flat Fluted Sections, see page 59.

## BEVEL END SECTION



For floor hinge saddles the flange of this section is removed along hinge box opening.

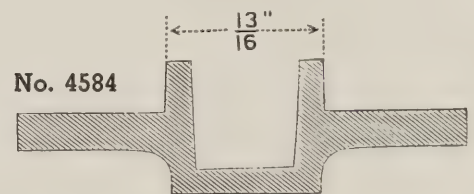
## DOUBLE GROOVE SECTIONS



Furnished in three sizes.

For full size details, see page 59.

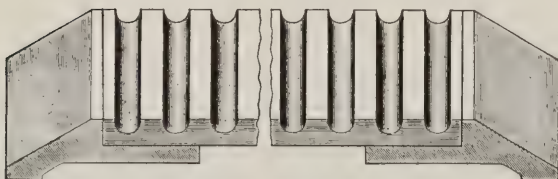
## SINGLE GROOVE SECTION



# Assembled Rolled Steel Door Saddles

## Typical Construction Details

### ASSEMBLED DOOR SADDLE



Door saddles of extreme width may be constructed by using two or more fluted flat sections side by side. The pattern of all fluted sections being identical, the joint will not be apparent.

### ASSEMBLED ROOF DOOR SADDLE



### ASSEMBLED DOOR SADDLE WITH GROOVE FOR SLIDING DOOR

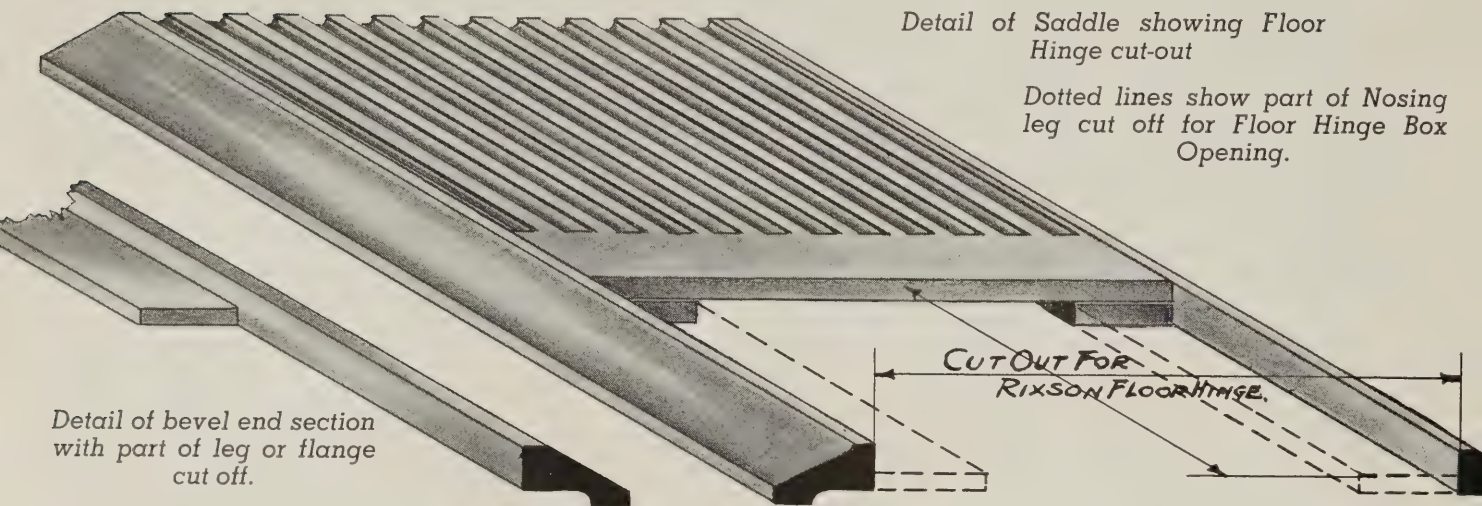


Saddles with double grooves for double doors or screen doors may be assembled by using our double groove sections.

### ASSEMBLED DOOR SADDLE, EXTRA WIDE

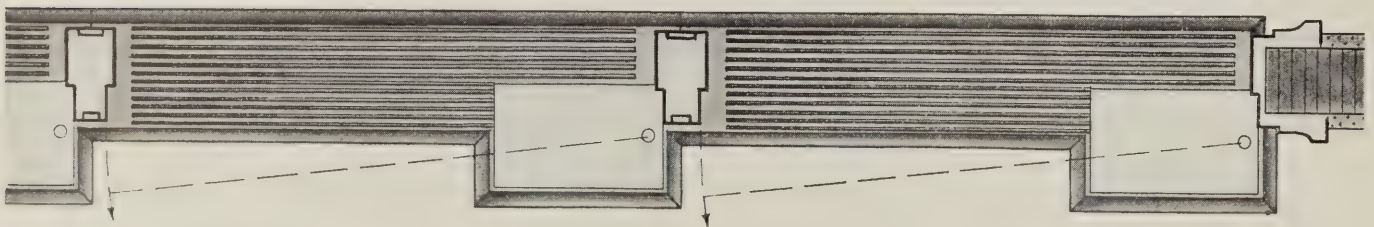


## Typical Construction of Door Saddle with cut-out for Floor Hinges

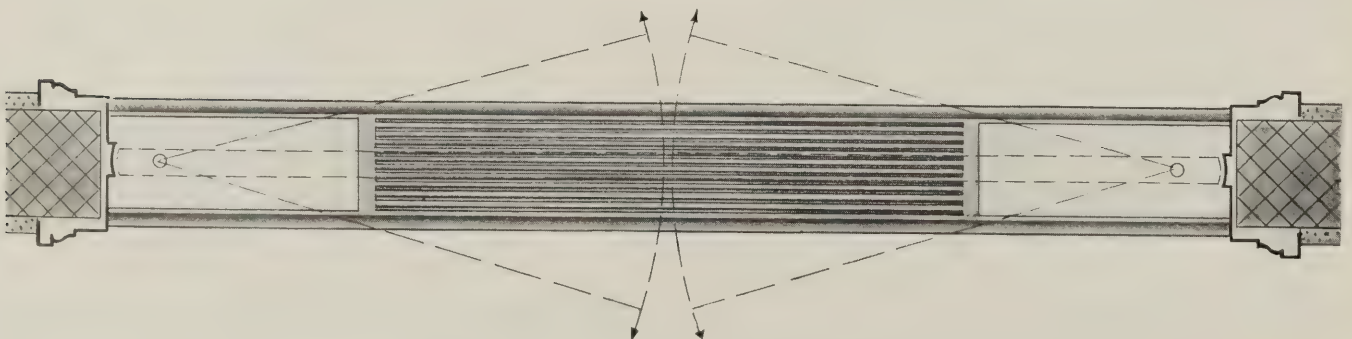


Thresholds with cut-outs for Mullions or Columns may be constructed easily and at low cost. The flat members (fluted or plain) may be cut out or notched out to fit the Mullion, Column or Jamb BEFORE assembling. Saddles constructed in this manner will fit perfectly and may be set at a minimum expense for field labor.

## Typical Construction of Door Saddle with Box cut-outs for Floor Hinges and cut-outs for Mullions or Columns



## Typical Construction of Door Saddle with straight cut-outs for Floor Hinges



NO BREAKAGE  
NO PATTERNS

NO IMPERFECTIONS  
LOW IN COST

NO WAITING

NO STRAIGHTENING  
NO ERRORS

532-540 WEST 22nd ST.

**JULIUS BLUM & CO., INC.**

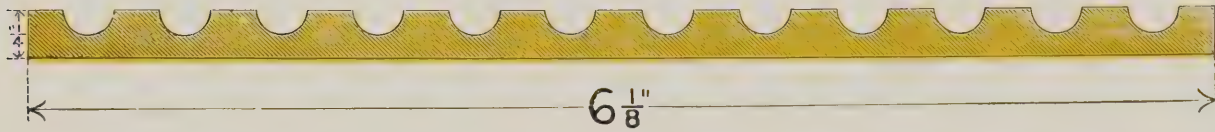
NEW YORK 11, N. Y.



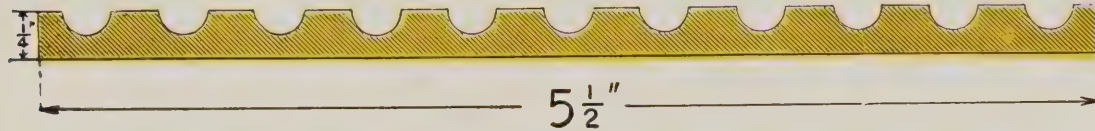
# SECTIONS FOR ASSEMBLED DOOR SADDLES

## Architectural Bronze

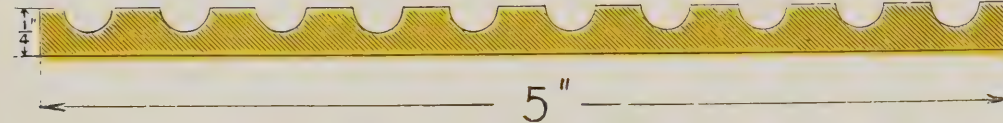
No. 4559



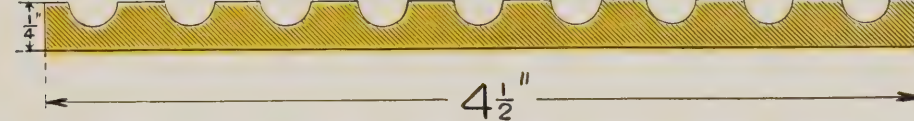
No. 4550



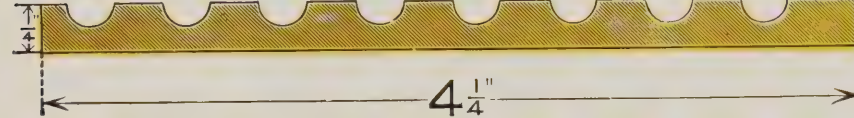
No. 4551



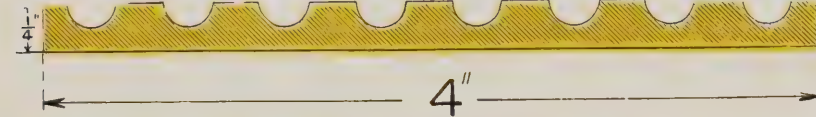
No. 4552



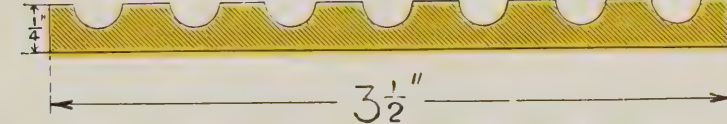
No. 4553Q



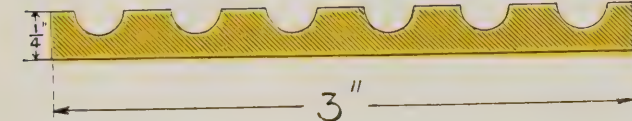
No. 4553



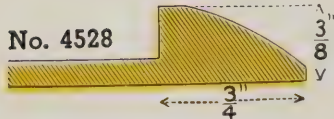
No. 4554



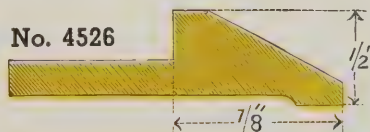
No. 4555



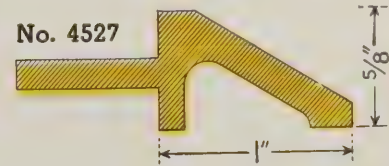
No. 4528



No. 4526

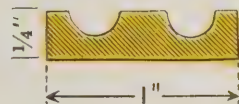


No. 4527

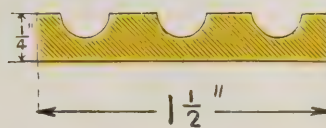


For assembly details,  
see pages 54, 56, 57.

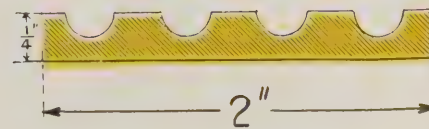
No. 4566



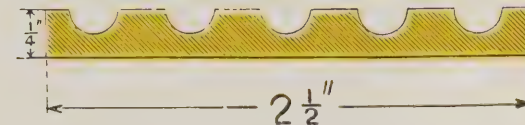
No. 4558



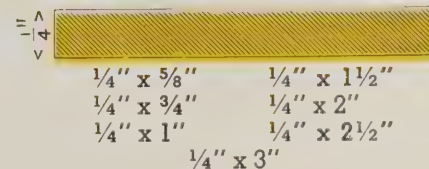
No. 4557



No. 4556



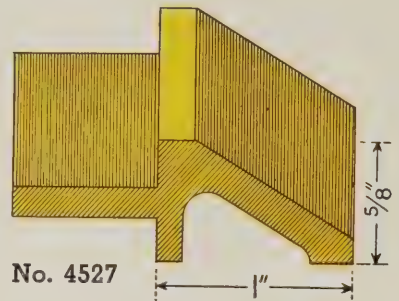
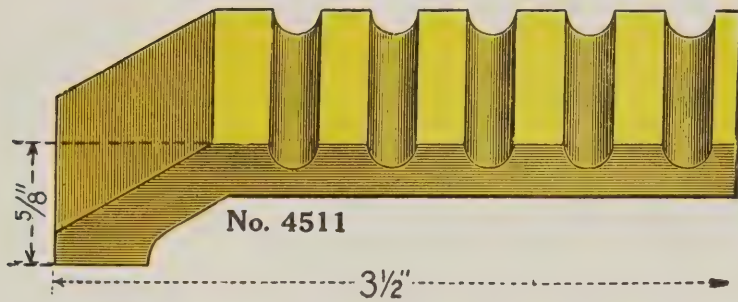
### PLAIN FLATS FOR PANELS



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTHS  
NO BREAKAGE NO IMPERFECTIONS NO STRAIGHTENING  
NO PATTERNS LOW IN COST NO WAITING NO ERRORS

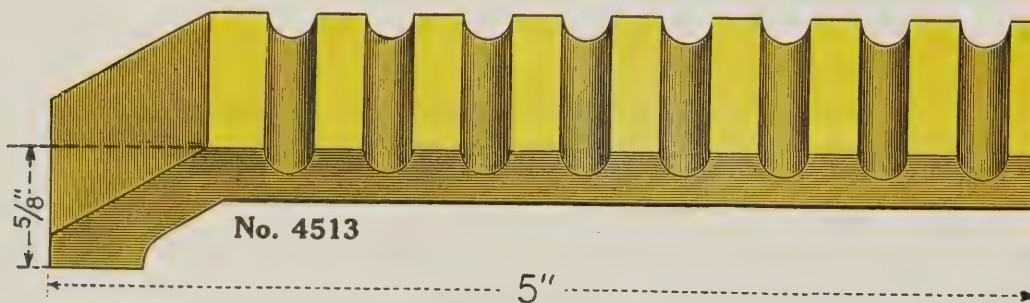
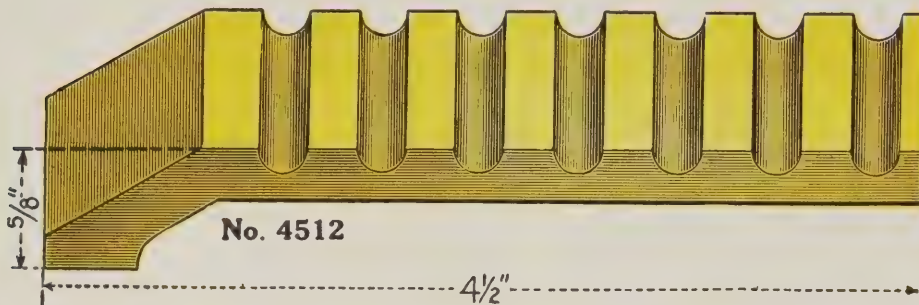
# SECTIONS FOR ASSEMBLED DOOR SADDLES

Architectural Bronze

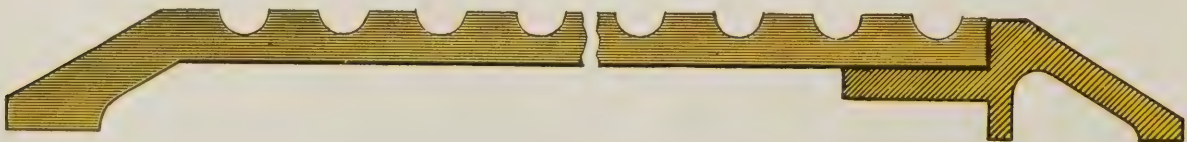


Bevel End Section.

For floor hinge saddles, the flange of this section is removed along hinge box opening.

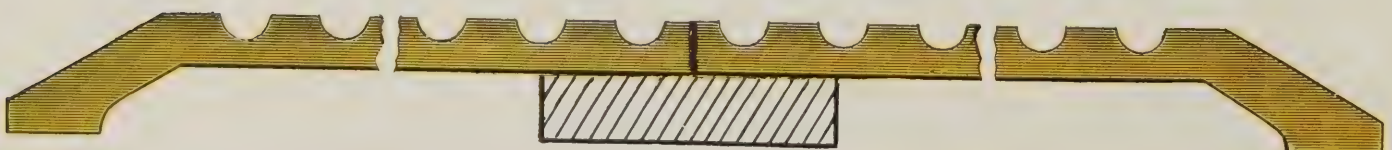


1/4" Half Round  
for filling in grooves.



Detail of assembled Door Saddle.

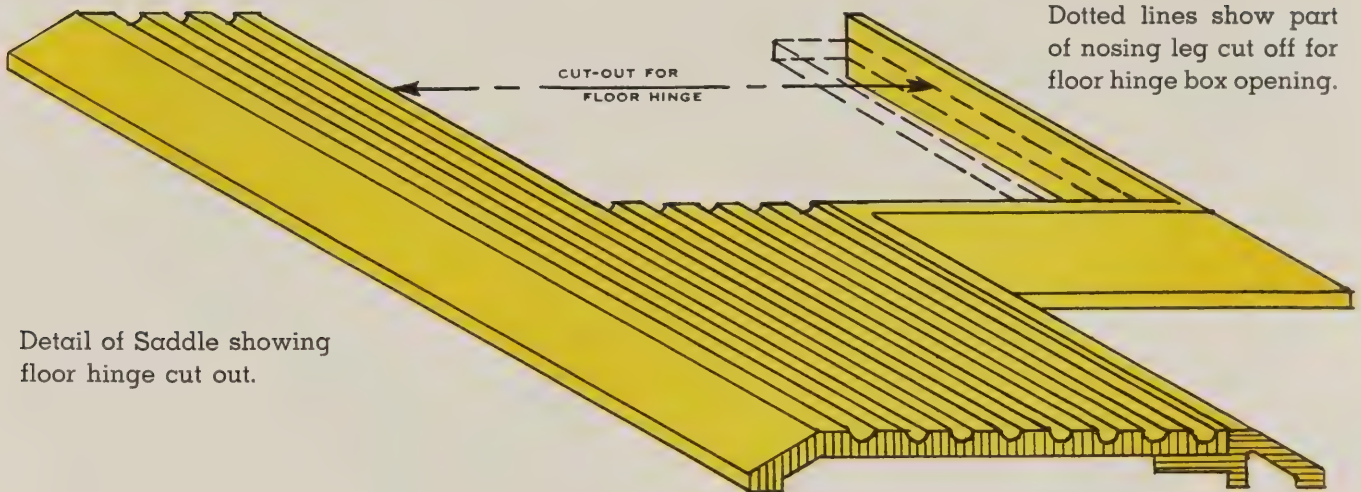
Cut-outs for floor hinges can be made easily before assembling.



Detail of assembled Door Saddle up to 10" wide. Wider saddles may be constructed by adding a flat fluted section in the center. The pattern of all fluted sections being identical, the joints will not be apparent.



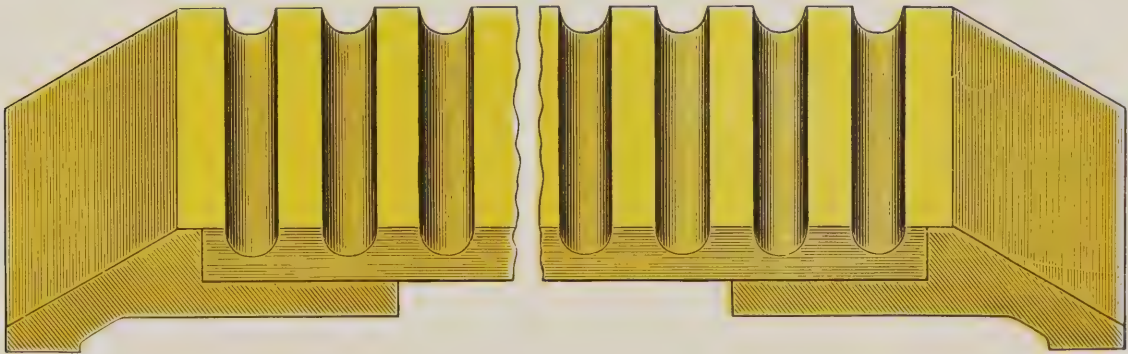
## Typical Construction of Door Saddle with cut-out for Floor Hinges



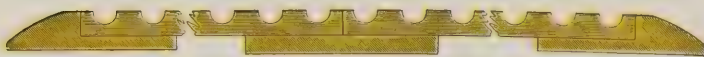
Detail of Saddle showing  
floor hinge cut out.

## Assembled Architectural Bronze Door Saddles

### Typical construction details



ASSEMBLED DOOR SADDLE, EXTRA WIDE



ASSEMBLED ROOF DOOR SADDLE



ASSEMBLED DOOR SADDLE WITH GROOVE  
FOR SLIDING DOOR



Door Saddles of extreme width may be constructed by using two or more fluted flat sections side by side, with a plate underneath.

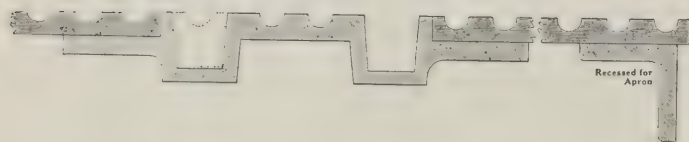
The pattern of all fluted sections being identical, the joint will not be apparent.

Saddles with double grooves for double sliding doors or screen doors may be assembled by using our double groove sections. See page 60.

# TYPICAL CONSTRUCTION OF ELEVATOR SADDLES

## ROLLED STEEL OR ARCHITECTURAL BRONZE

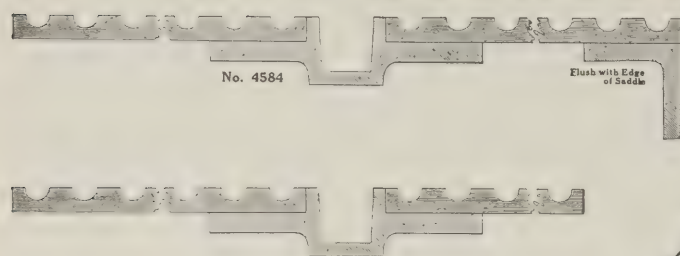
### DOUBLE GROOVE SADDLE



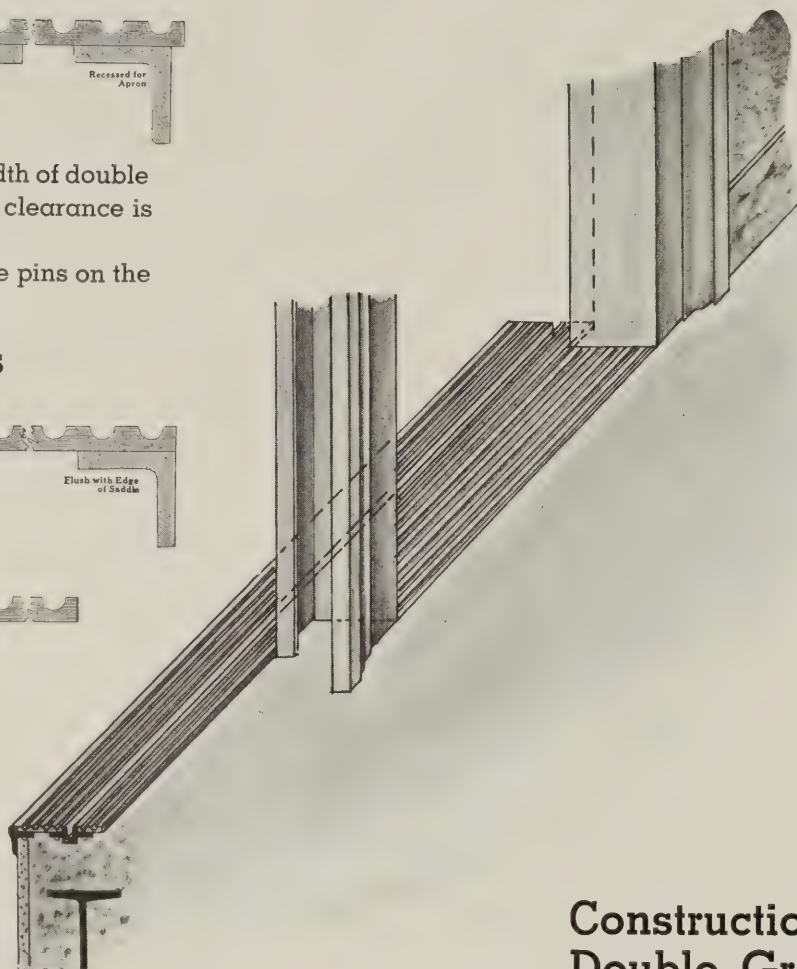
The thickness of the doors governs the width of double groove section to be used. As a rule  $\frac{1}{4}$ " clearance is allowed between doors.

If doors are slightly thicker or thinner, the pins on the bottom of door are set a trifle off center.

### SINGLE GROOVE SADDLES

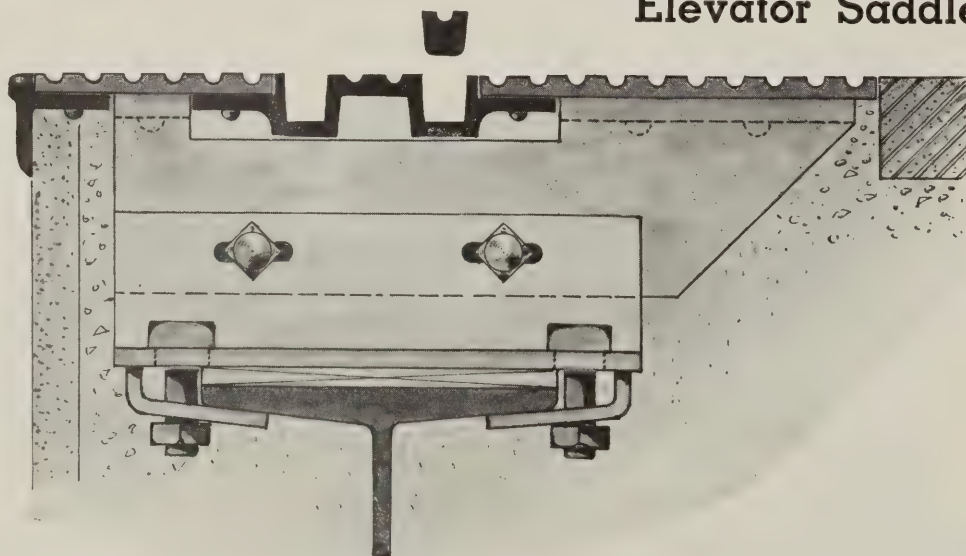


Detail of single groove elevator saddle extending behind partition.



### Construction of Double Groove Elevator Saddle

For erecting Elevator Saddles we recommend two angles, each with slotted holes, fastened in the shape of a Z to the bottom of the saddle. The legs of the bottom angles are fastened to the floor beam or channel, the saddle is then leveled between the jamb, the bolts and nuts connecting the two Z-shaped angles are tightened and the concrete flushed underneath.

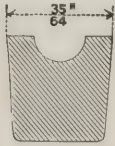




# Rolled Steel Sections for Elevator Door Saddles

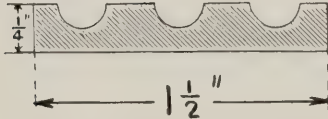
## INSERT SECTION

No. 4587

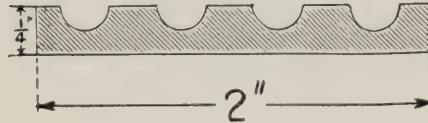


For filling up part of groove and for door stop.

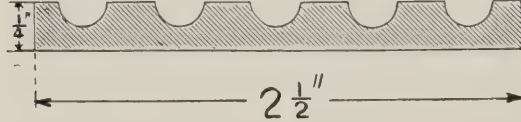
No. 4540



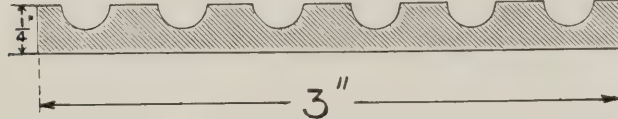
No. 4541



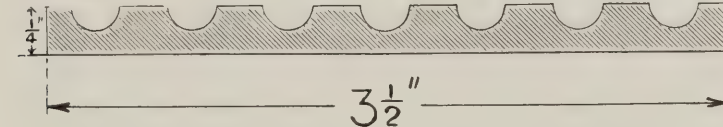
No. 4542



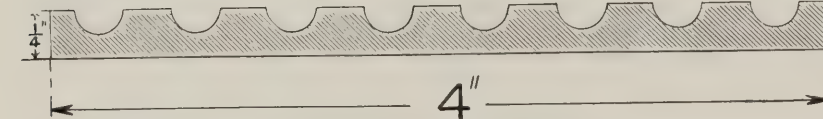
No. 4543



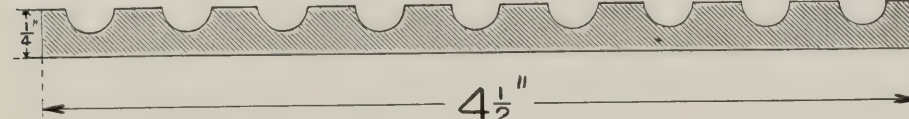
No. 4544



No. 4545

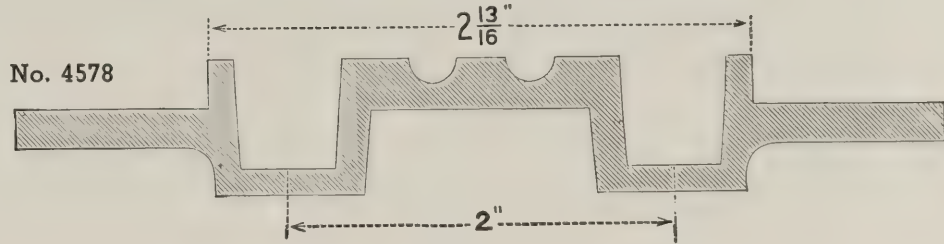


No. 4546



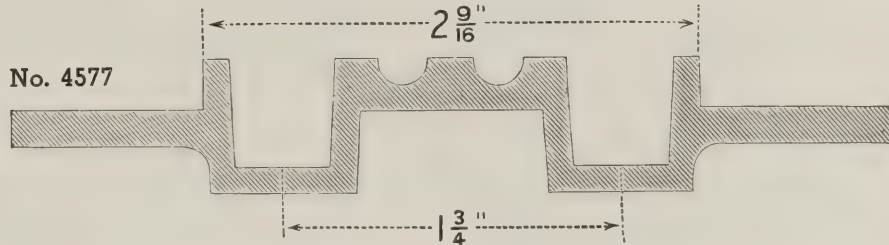
## DOUBLE GROOVE SECTIONS (FOR 1 3/4" THICK DOORS)

No. 4578



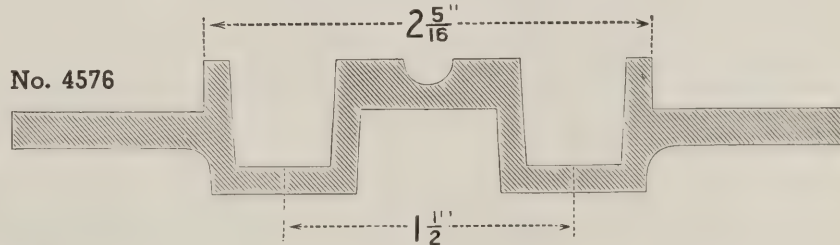
## (FOR 1 1/2" THICK DOORS)

No. 4577



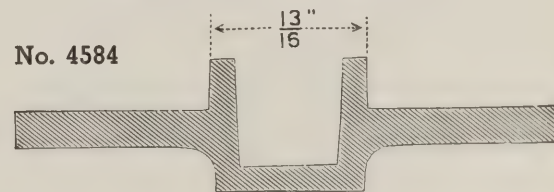
## (FOR 1 1/4" THICK DOORS)

No. 4576



## SINGLE GROOVE SECTION

No. 4584



NO BREAKAGE  
NO PATTERNS

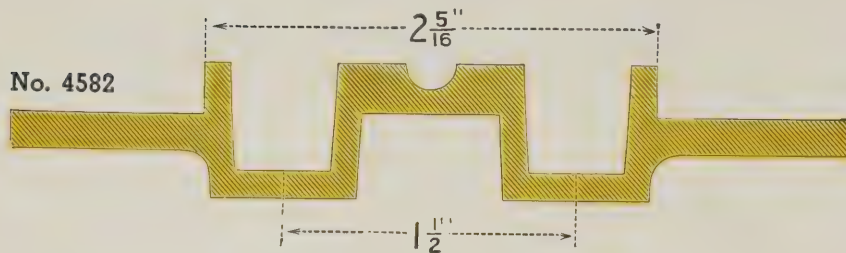
NO MACHINING OF GROOVES  
NO IMPERFECTIONS  
NO WAITING

NO STRAIGHTENING  
NO COSTLY ERRORS

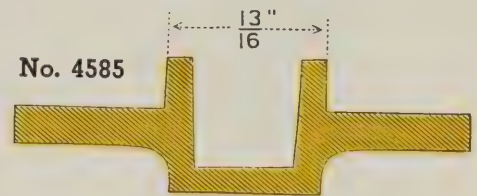
# Architectural Bronze Sections for Elevator Door Saddles

## DOUBLE GROOVE SECTION

(For 1 1/4" Thick Doors)

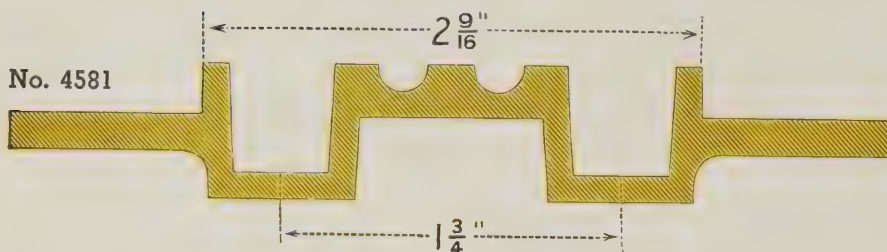


## SINGLE GROOVE SECTION



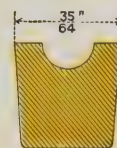
## DOUBLE GROOVE SECTION

(For 1 1/2" Thick Doors)



## INSERT SECTION

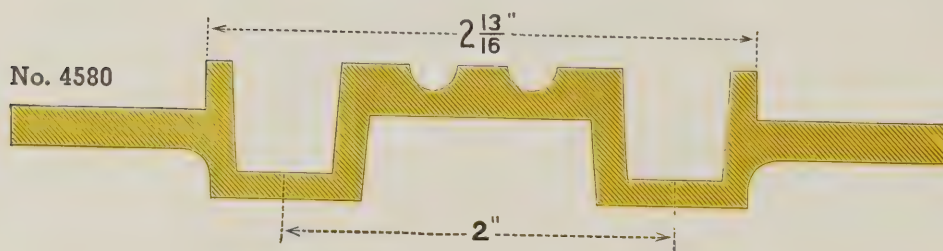
No. 4588



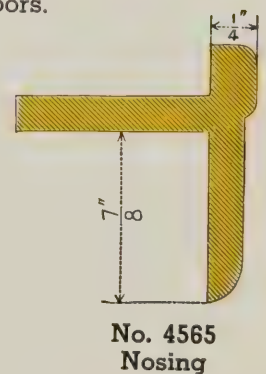
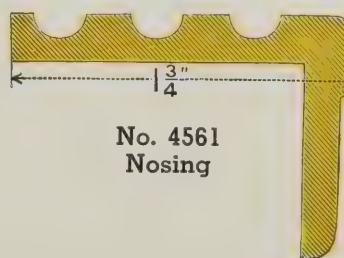
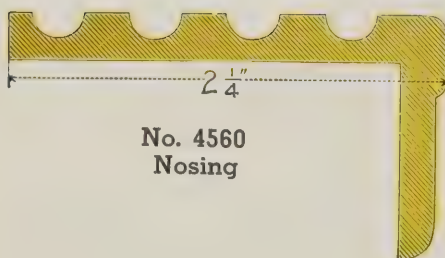
For filling up part of groove and for door stop.

## DOUBLE GROOVE SECTION

(For 1 3/4" Thick Doors)



If doors are slightly thicker or thinner the guide pins in the bottom of the door are set a trifle off center. As a rule, 1/4" clearance is allowed between doors.



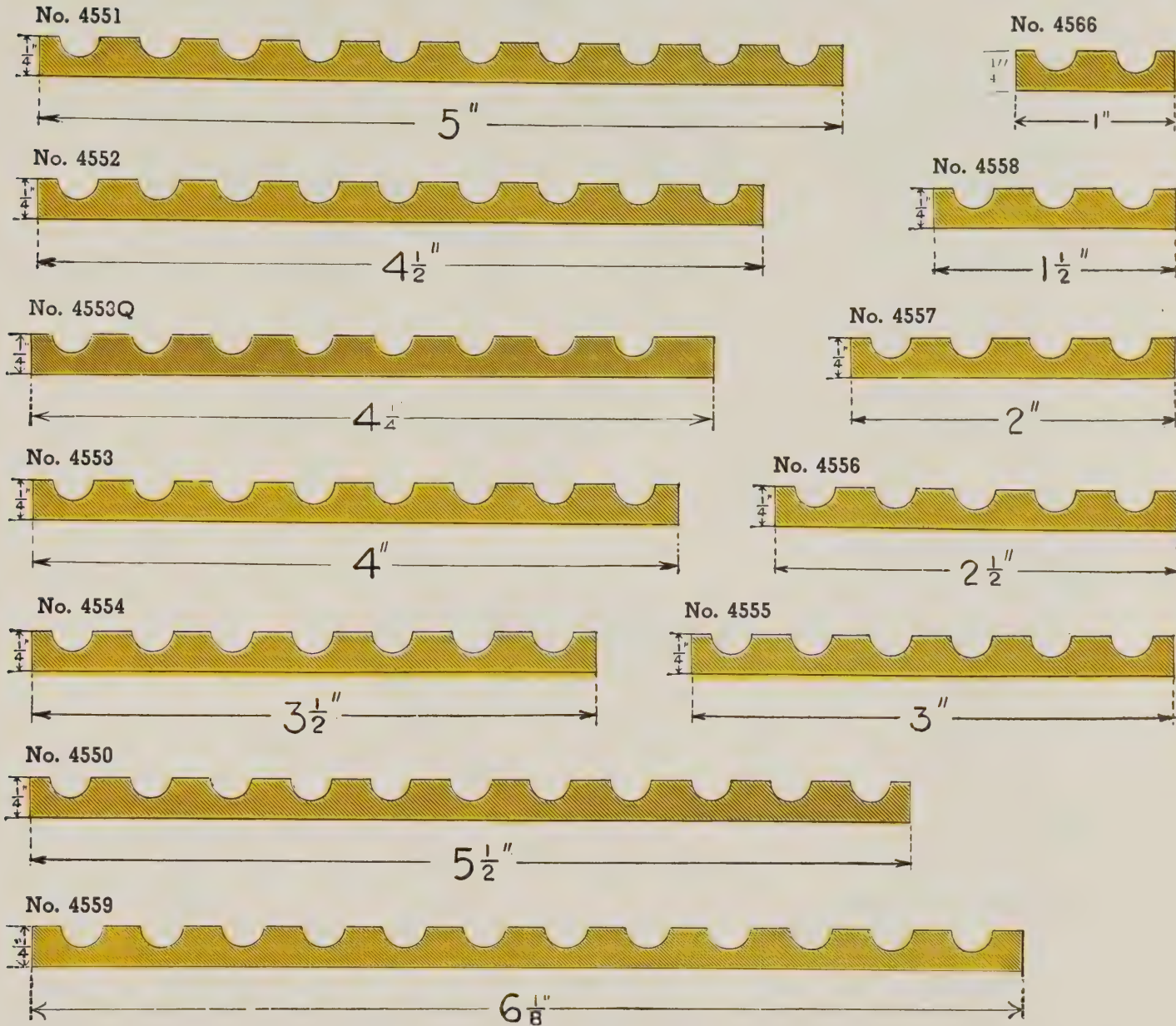
## BRONZE RIVETS FOR ASSEMBLING SADDLES

3/16" x 9/16" Round Head  
3/16" x 1" " "  
1/4" x 1 1/8" " "



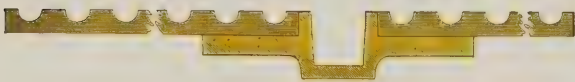


# Architectural Bronze Sections for Elevator Door Saddles



## Typical Construction of Architectural Bronze Elevator Saddles

SINGLE GROOVE SADDLE



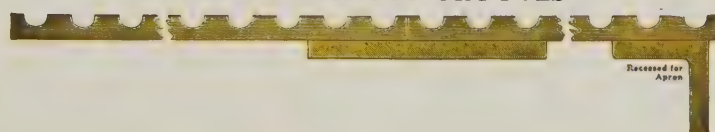
DOUBLE GROOVE SADDLE



SINGLE GROOVE SADDLE WITH NOSING

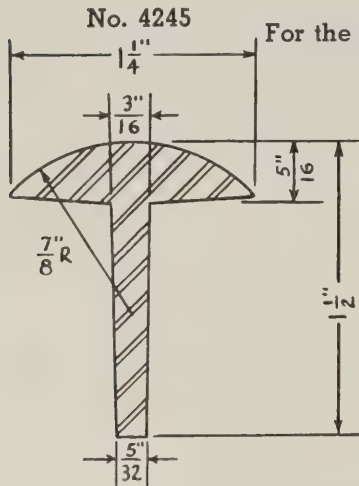


SADDLE WITHOUT GROOVES

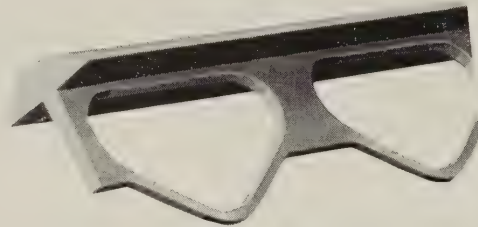


For additional details, see page 58.

# HOT ROLLED GALVANIZED STEEL CURB BAR with anchors



For the protection of Stair Tread and Platform Edges  
Curbs, Column Corners etc.

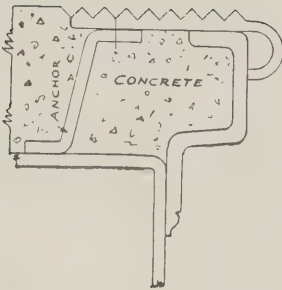


No. 4245

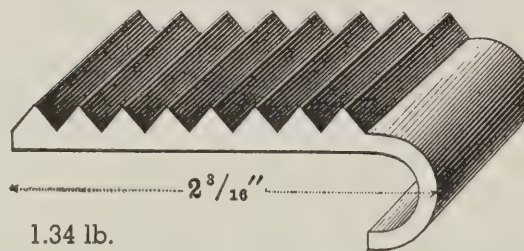
Carried in stock in lengths of 10 feet.

## NON-SLIP EDGE NOSING

Rolled Steel — No. 4508

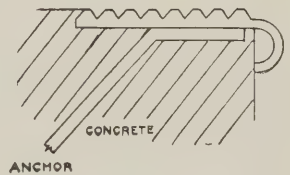


Detail of Nosing No. 4508  
with anchor and Nosing  
No. 4231 used on steel ris-  
ers (anchors not furnished).  
Detail is one half actual  
size.



1.34 lb.

Nosing No. 4508 is carried in stock  
in lengths of about 20 feet. Can also  
be furnished cut to specified lengths.

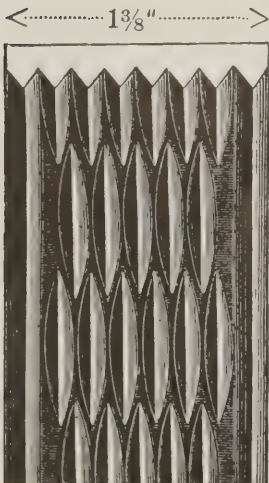


Detail of Nosing No. 4508  
with anchor for protection  
of concrete edges (anchors  
not furnished).

Detail is one half actual  
size.

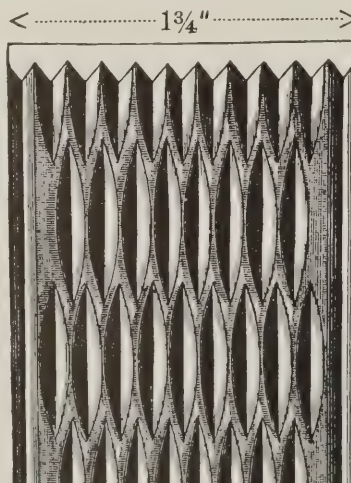
## NON-SLIP TREADS — ROLLED STEEL

No. 4497



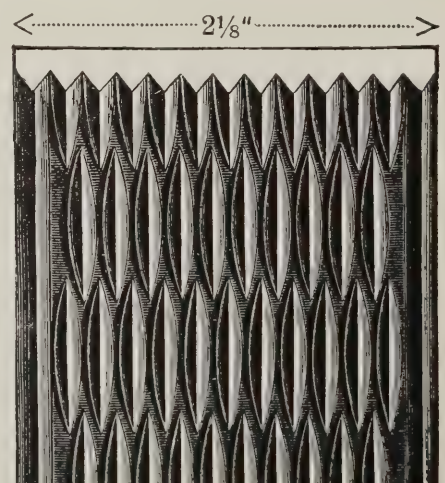
.54 lb.

No. 4498



.81 lb.

No. 4499

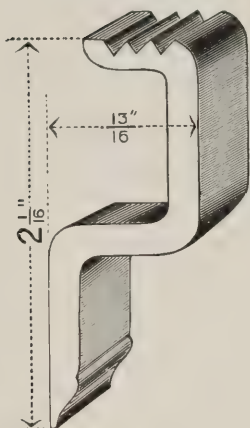


.99 lb.

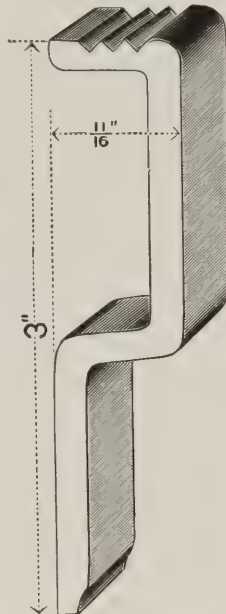


# NOSINGS FOR TREADS AND PLATFORMS

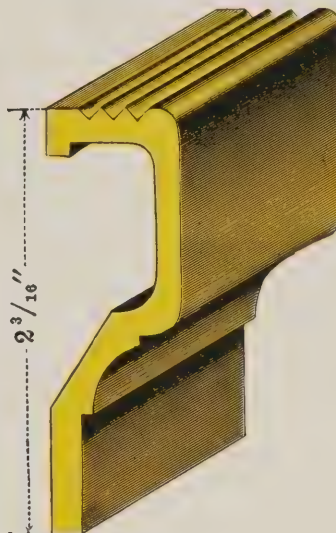
**Rolled Steel  
No. 4231**



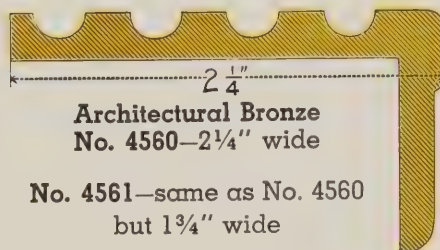
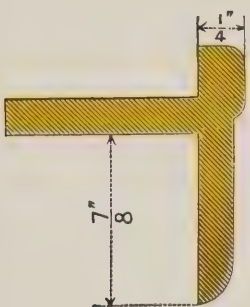
**Rolled Steel  
No. 4232**



**Architectural Bronze  
No. 6632**



**Architectural Bronze  
No. 4565**



**Architectural Bronze  
No. 4560—2 1/4" wide**

**No. 4561—same as No. 4560  
but 1 3/4" wide**

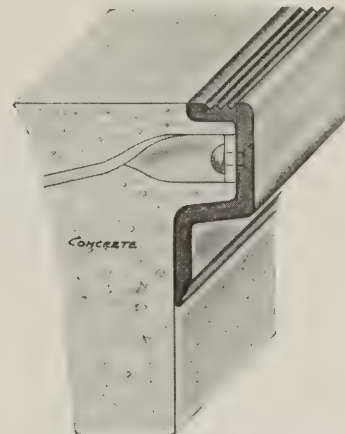
For detail of No. 4561, see page 60

For details of  
Flat Fluted Sections  
see pages 59 and 61

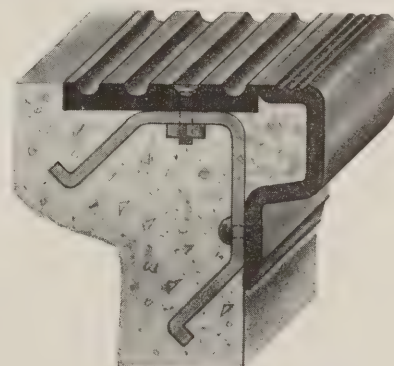
**Architectural  
Bronze  
No. 4568**



Details below are one half  
actual size.



Detail of Nosing applied to concrete  
riser and step (anchors not furnished)



Detail of Nosing and Flat Fluted Sec-  
tion applied to concrete riser and  
tread (anchors not furnished).



Detail of Flat Fluted Section with  
Nosing No. 4568.

## POLISHED ALUMINUM NOSINGS

12 ft. lengths—with screw holes

**Polished Aluminum  
No. 5002-L  
1 1/8" under flange  
for 1/8" material**



**Polished Aluminum  
No. 5702-J  
1" under flange  
for 1/8" material**



**Polished Aluminum  
No. 5312-K  
1-1/16" under flange  
for 1/8" material**







# MOULDINGS



ALL rolled and extruded shapes in this section are carried in stock in random lengths of about 20 feet except as noted. Bronze and Aluminum shapes can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

*Illustrations are actual size except as noted.*

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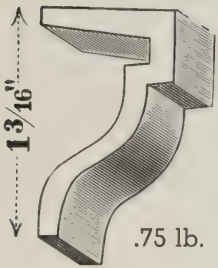
## Subjects covered in this section:

<b>Rolled Steel</b>	<b>Page No.</b>	<b>Architectural Bronze</b>	<b>Page No.</b>
Channel Stringer Mouldings.....	71	Mouldings .....	83, 84
Plate Stringer Mouldings.....	66, 67	Door Edgings .....	86
Wall Stringer Mouldings.....	69	Glass Framing Sections .....	83, 84, 86
J & L Light Weight Stringer Channels .....	74		
Built-up Cornice Sections.....	72, 73		
Glass Frame and Window Shapes .....	76, 80, 81	<b>Aluminum</b>	
Skylight Bars .....	75	Mouldings .....	84
Loafers Rail.....	76	Door Edgings .....	85
Ornamental Mouldings .....	76, 77	Glass Framing Sections .....	84, 85
Miscellaneous Mouldings .....	75, 78, 79	Nosings .....	85
Light Gauge Mouldings.....	69		

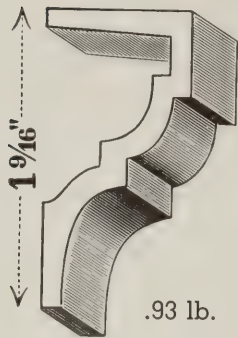
Also see sections on "Railings," "Saddles—Nosings," "Rods, Shapes, Tubing"

# PLATE STRINGER MOULDINGS

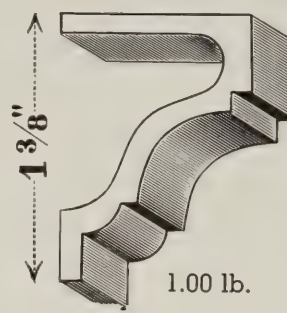
No. 4157



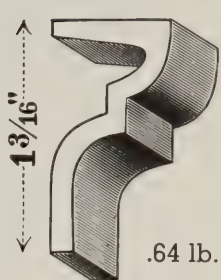
No. 4151



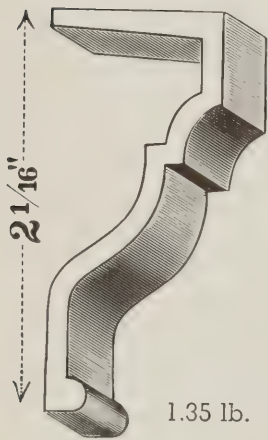
No. 4156



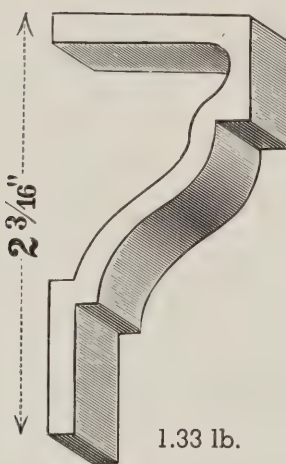
No. 4150



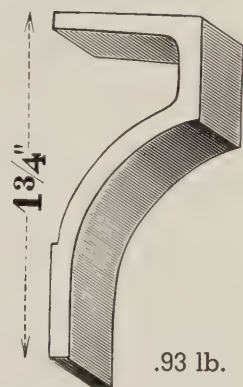
No. 4152



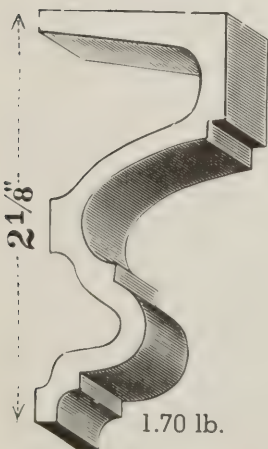
No. 4153



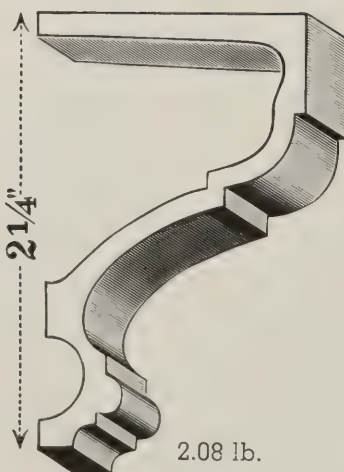
No. 4265



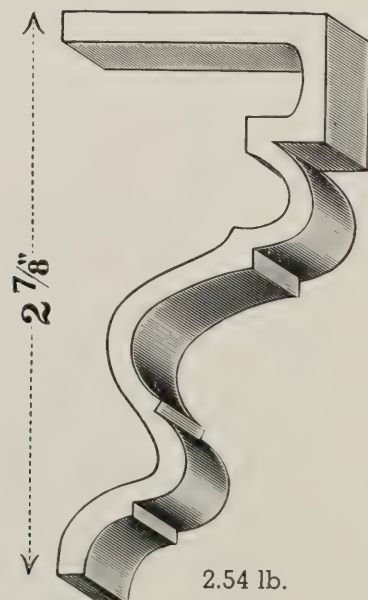
No. 4172



No. 4171

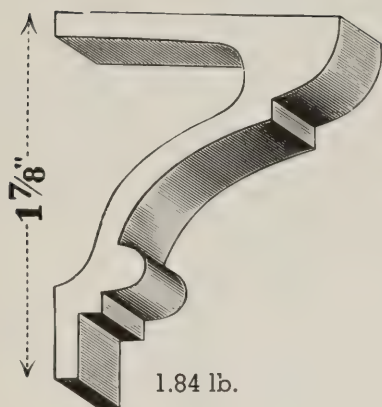


No. 4170

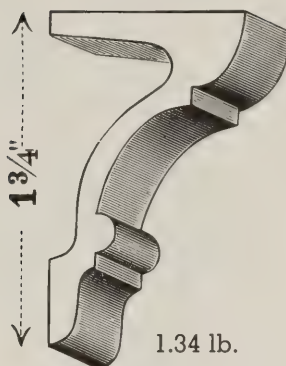




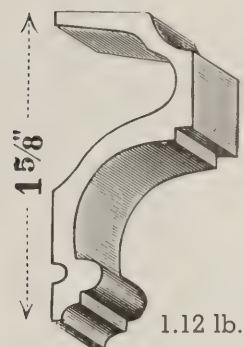
No. 4155



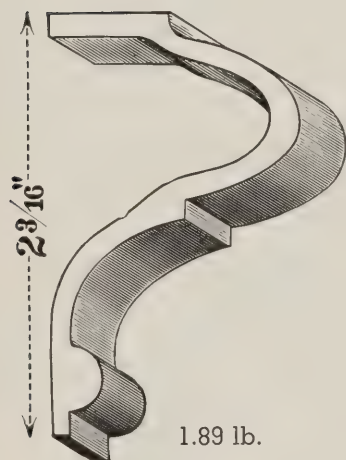
No. 4154



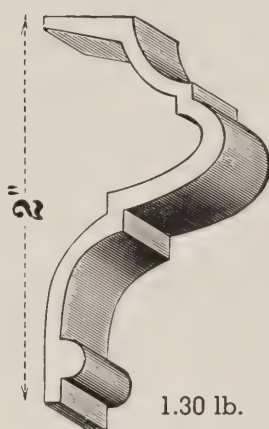
No. 4163



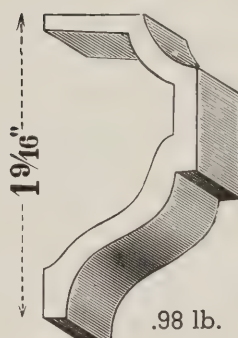
No. 4281



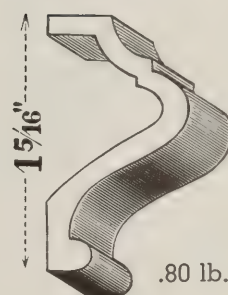
No. 4266



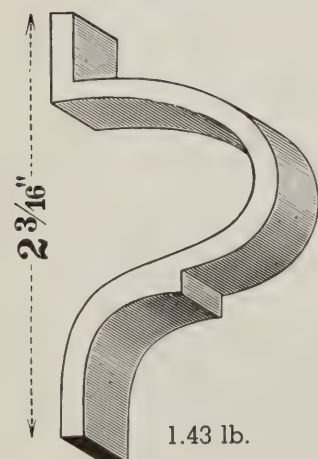
No. 4264



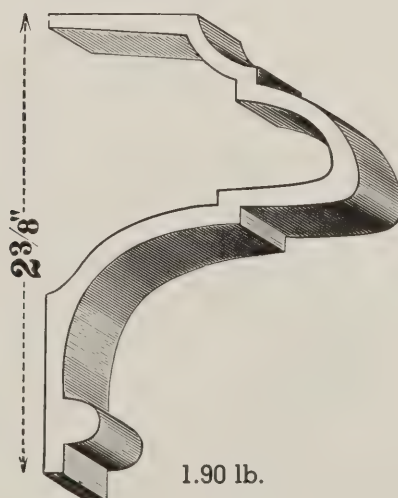
No. 4261



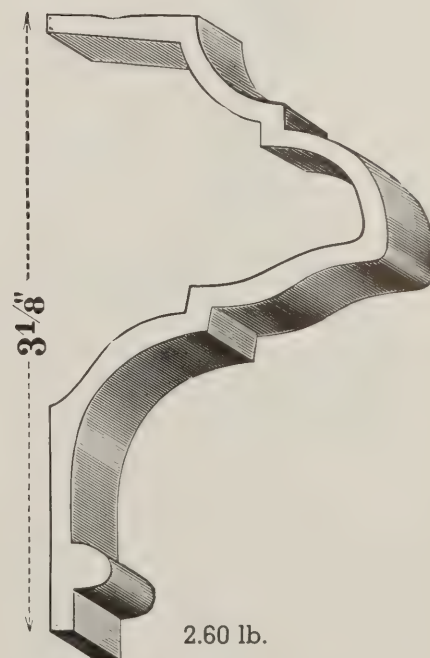
No. 4263



No. 4279



No. 4278



# STAIR STRINGER AND FACIA CONSTRUCTION

Plate Stringer with Moulding  
No. 4153 top and bottom.

Panel: Moulding No. 4257  
Plaster soffit stop:  
Moulding No. 4471



Plate Stringer with Moulding  
No. 4172

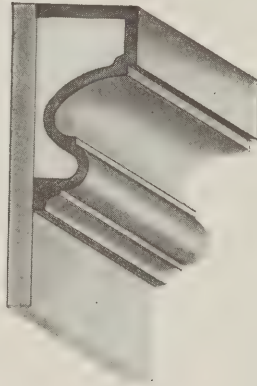


Plate Wall Stringer with  
Moulding No. 4226

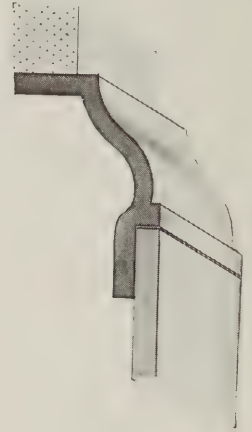


Plate Stringer with Moulding  
No. 4154

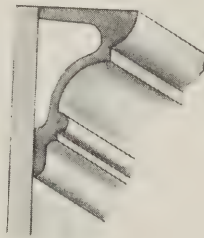


Plate Wall Stringer with  
Moulding No. 4310

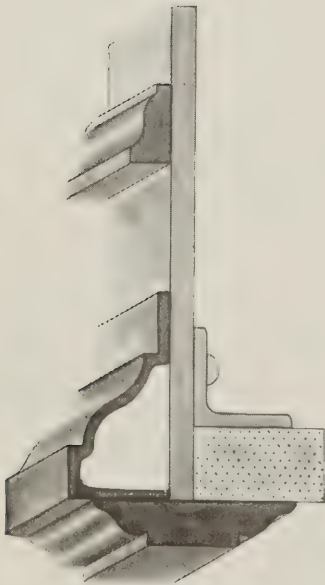
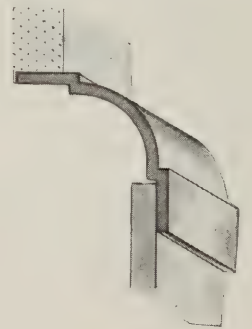
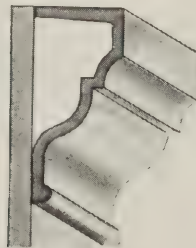
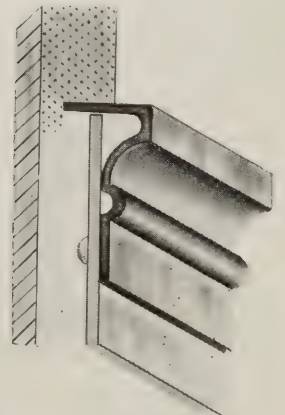


Plate Stringer with Moulding  
No. 4152



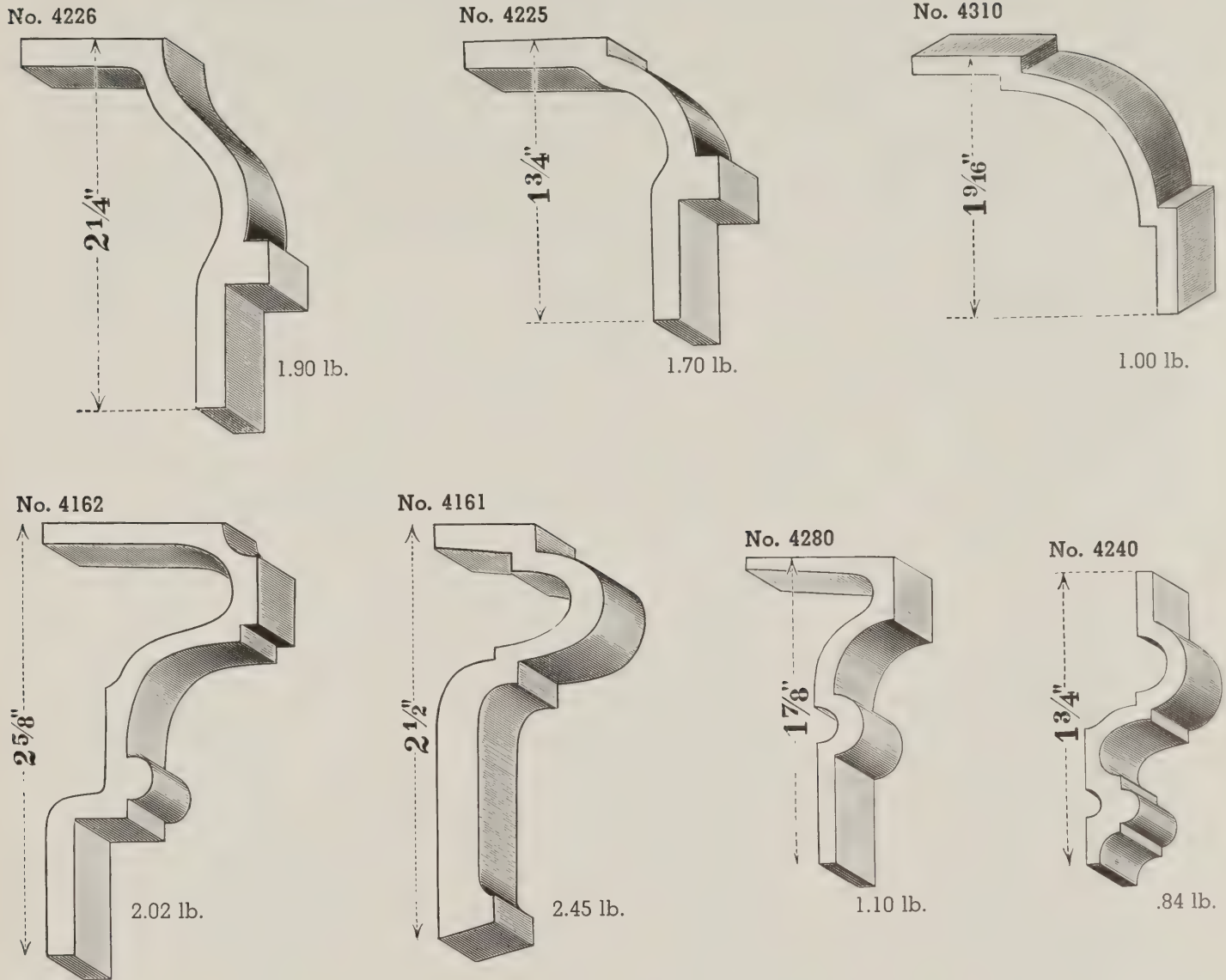
Wainscoting or Plate Wall  
Stringer with Moulding No. 4280



Details are ONE-HALF actual size

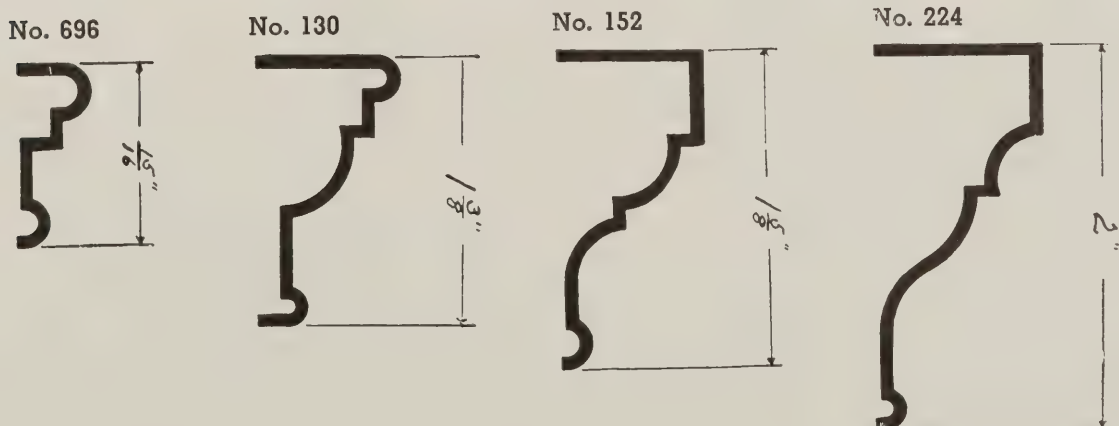


## WALL STRINGER MOULDINGS



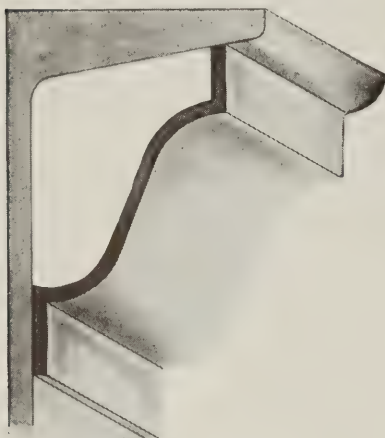
## COLD DRAWN STEEL MOULDINGS

No. 22 GAUGE

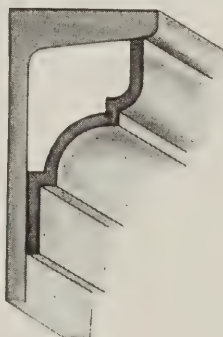


# STAIR STRINGER AND FACIA CONSTRUCTION

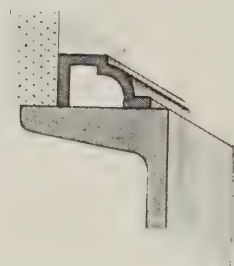
Channel Stringer with Moulding  
No. 4305 or No. 4356



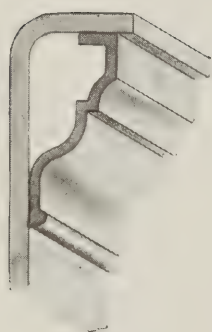
Channel Stringer with  
Moulding No. 4303



Channel Wall Stringer with  
Moulding No. 4130



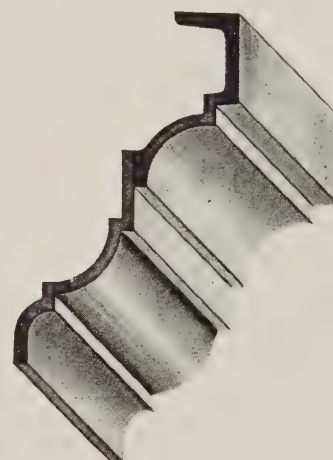
## BUILT-UP CORNICES



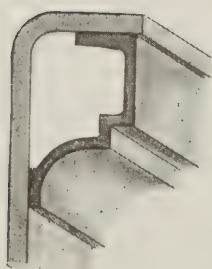
Bent Plate Channel  
Stringer with  
Moulding No. 4159



Mouldings  
No. 4356 and No. 4360



Mouldings  
No. 4173 and No. 4302



Bent Plate Channel  
Stringer with  
Moulding No. 4173

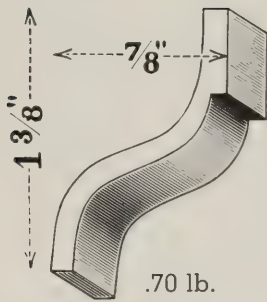
Illustrations show the applications of rolled steel Mouldings for stringers, facias and cornices. For full size details of Mouldings see the succeeding pages.

Details are ONE-HALF actual size.

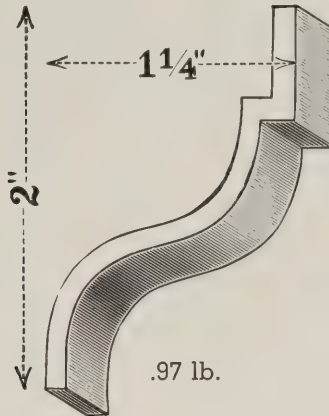


## CHANNEL STRINGER MOULDINGS

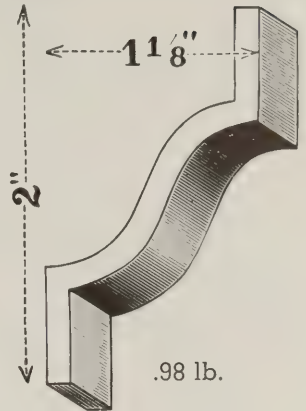
No. 4300



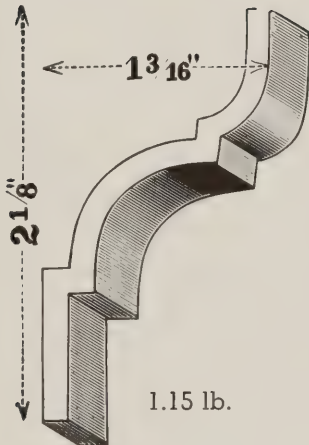
No. 4304



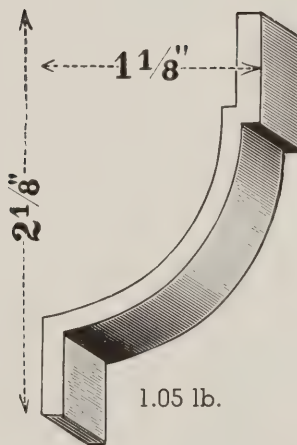
No. 4305



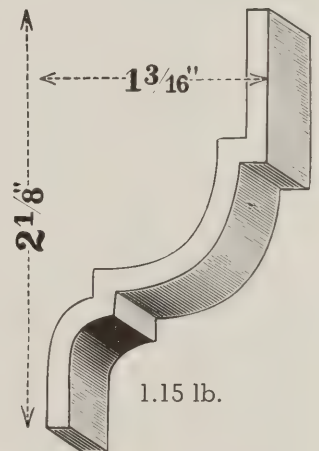
No. 4303



No. 4312

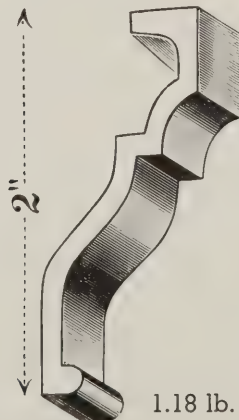


No. 4302

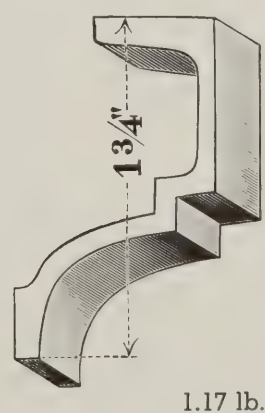


## MOULDINGS FOR BENT CHANNEL STRINGERS

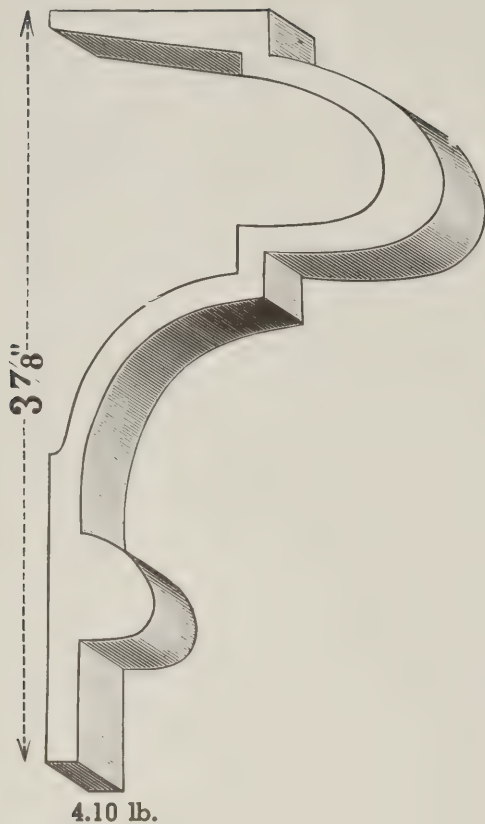
No. 4159



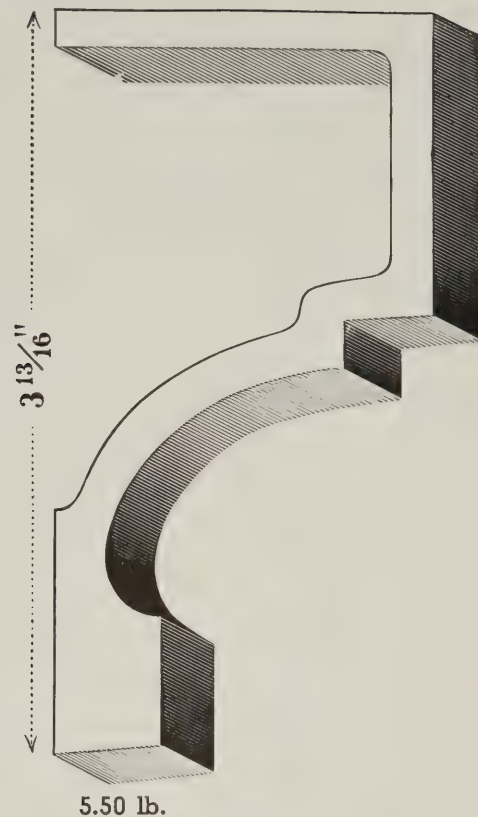
No. 4173



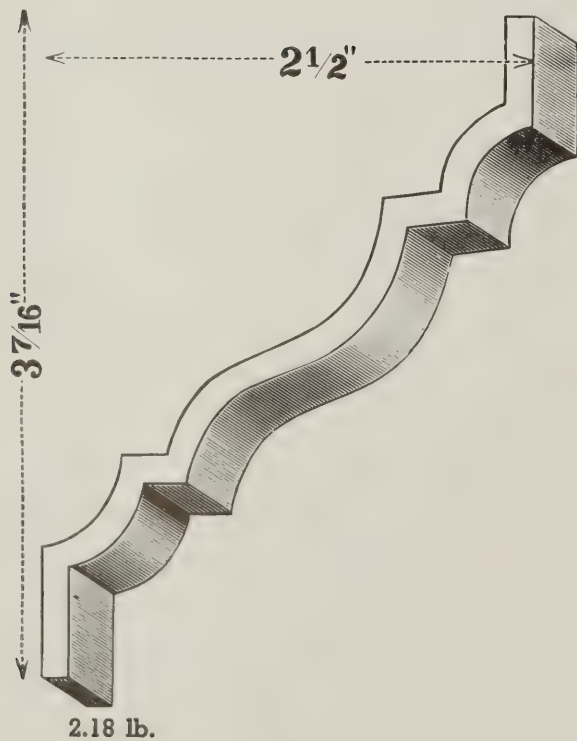
No. 4350



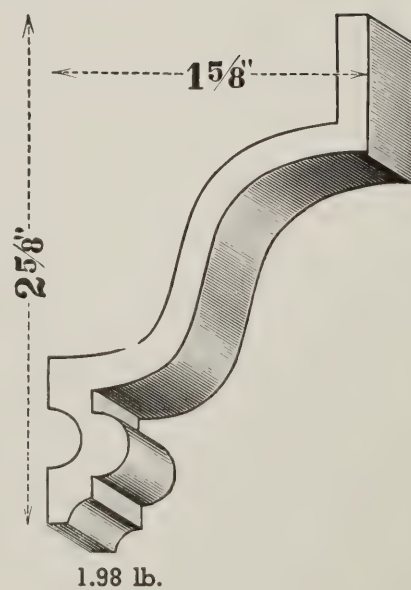
No. 4285



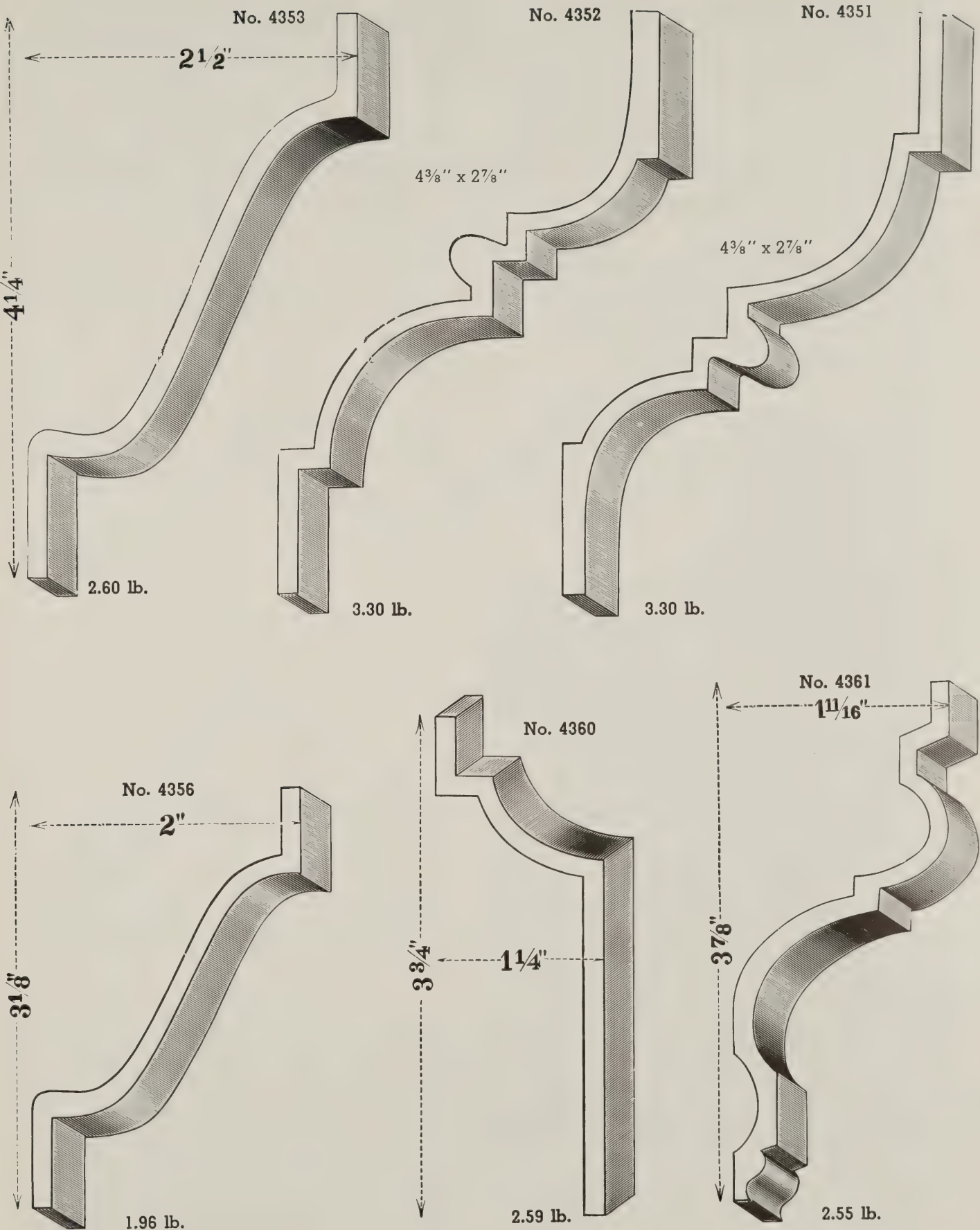
No. 4355



No. 4354







# J & L JUNIOR 10" AND 12" STEEL STAIR CHANNELS

Carried in stock in 20 foot lengths.

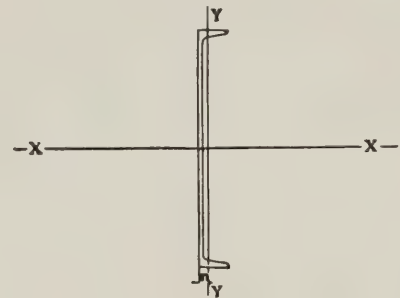
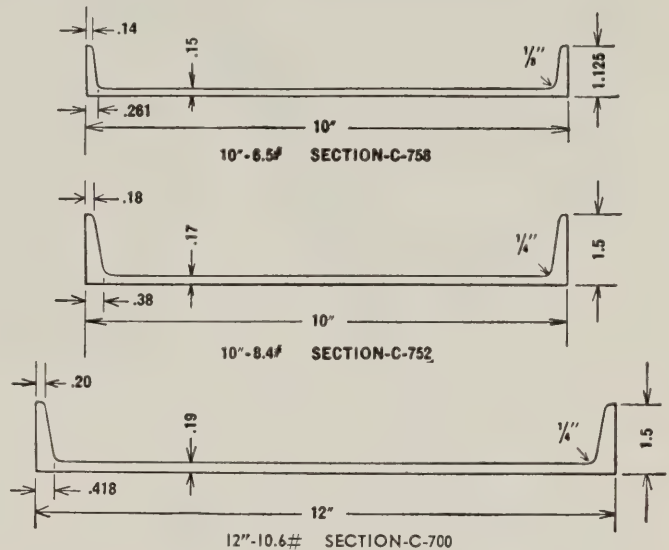
These Channels are especially suited for the construction of steel stair stringers and Facias.

*Light and Strong.* These channels weigh much less than the lightest structural channels of equal depth, yet are much stronger than formed plate channels of equal weight.

*Easy to fabricate and install.* Accurate dimensions and square corners assure a perfect fit. Light weight facilitates handling.



For trim we recommend mouldings No. 4300, 4302, 4303, 4304, 4305 and 4312. See page 171.



Functions of Sections

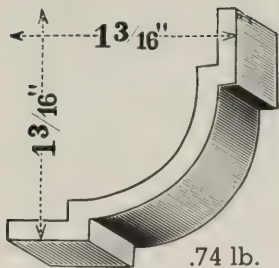
Section No.	Depth of Channel and Wt. per Ft. Lbs.	Area Sq. In.	Axis X-X (Perpendicular to Web)			Axis Y-Y (Parallel to Web)			
			I	S	r	n'	I'	S'	r'
C-758	10"- 6.5	1.91	22.1	4.4	3.47	.19	.12	.13	.25
C-752	10"- 8.4	2.47	32.3	6.5	3.61	0.29	0.33	0.28	0.37
C-700	12"-10.6	3.12	55.8	9.3	4.23	0.27	0.39	0.32	0.35

Dimensions

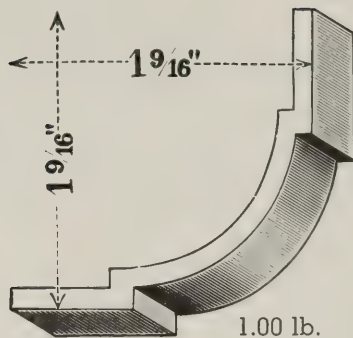
Section Index	Depth of Channel, Inches	Weight per Foot, Pounds	Flange Width		Web Thickness	
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch
C-758	10	6.50	1.125	1 $\frac{1}{8}$	.150	$\frac{3}{32}$
C-752	10	8.4	1.500	1 $\frac{1}{2}$	.170	$\frac{11}{64}$
C-700	12	10.6	1.500	1 $\frac{1}{2}$	.190	$\frac{3}{16}$



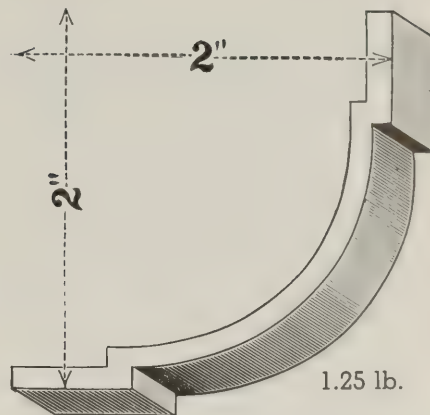
No. 4320



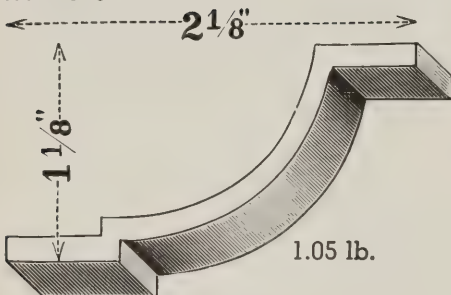
No. 4310



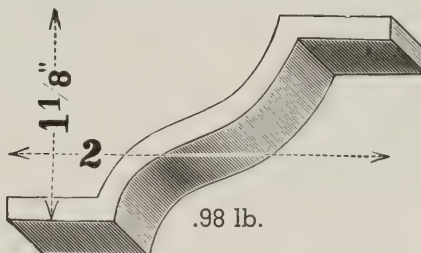
No. 4330



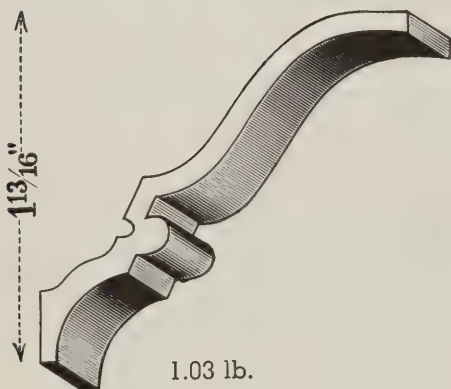
No. 4323



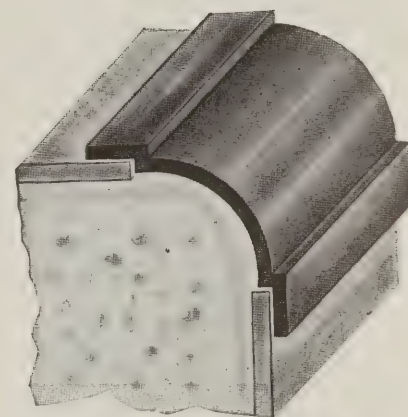
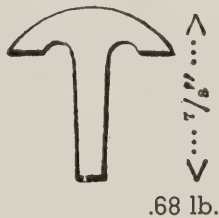
No. 4322



No. 4315



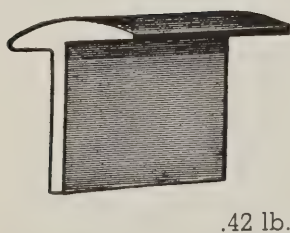
No. 4645



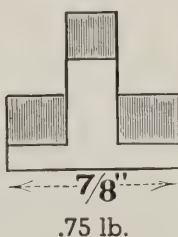
Detail showing Moulding 4310, 4320 or 4330 as corner guard.

(not actual size)

No. 4640

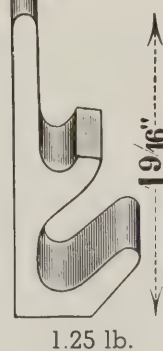


No. 4618

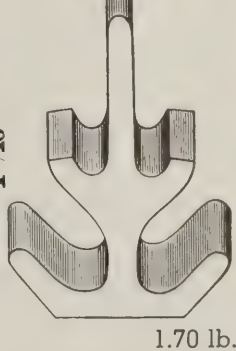


### SKYLIGHT BARS

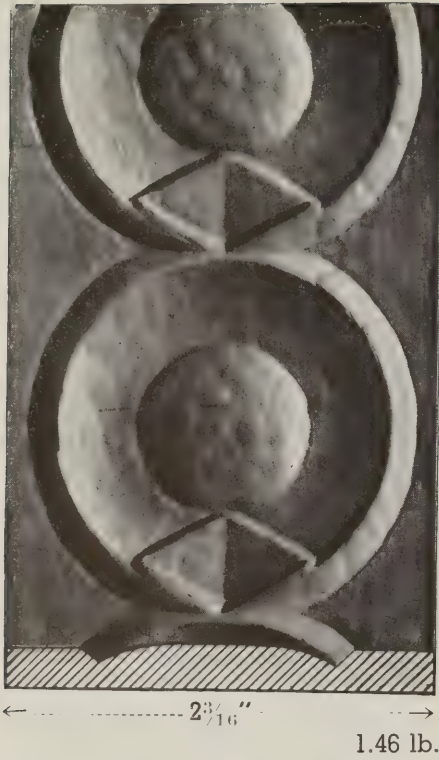
No. 4630



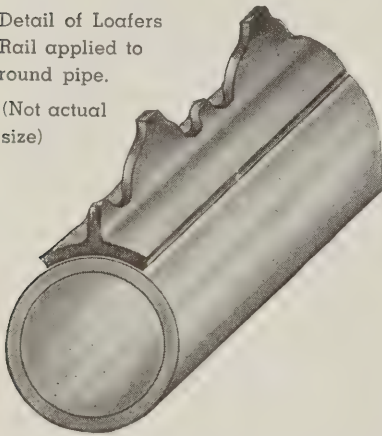
No. 4631



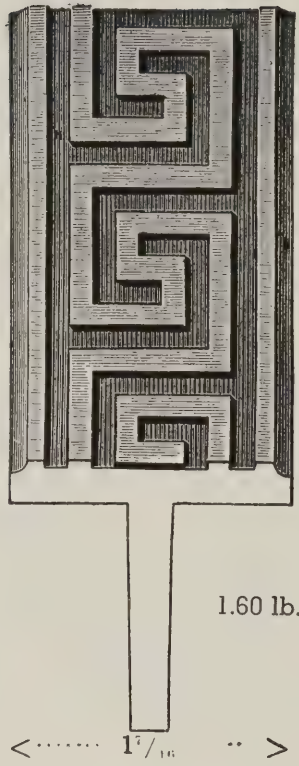
No. 5305



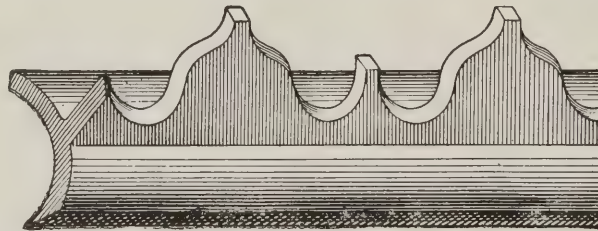
Detail of Loafers  
Rail applied to  
round pipe.  
(Not actual  
size)



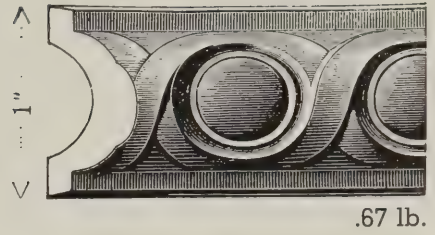
No. 5108



### ROLLED STEEL LOAFERS RAIL



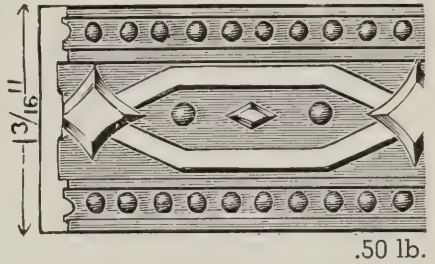
No. 5001



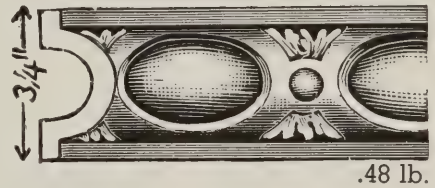
No. 5020



No. 5022



No. 5021

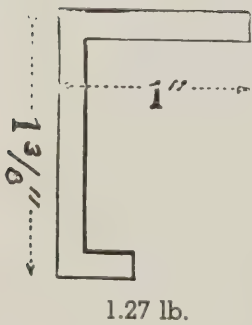


Loafers Rail may be  
used on flat surfaces  
as well as pipe rails.

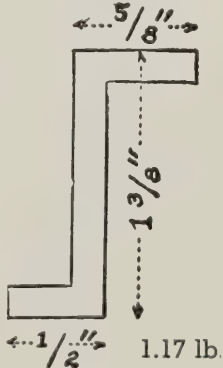
Stronger and cheaper  
than cast iron.

### ROLLED STEEL SECTIONS FOR CASEMENTS AND VENTILATORS

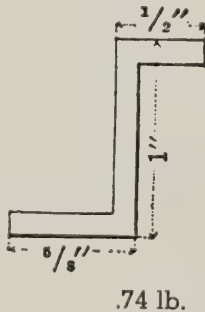
No. 4656



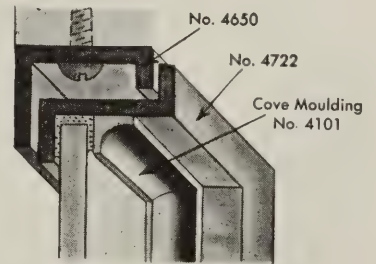
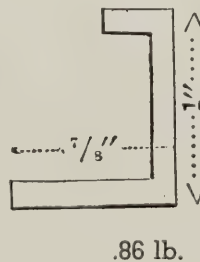
No. 4655



No. 4722



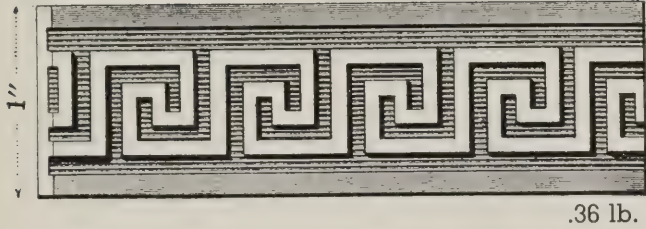
No. 4650



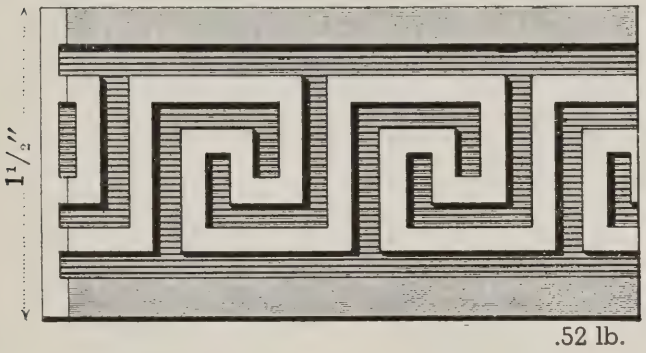
Detail of Ventilator  
Frame  
(1/2 actual size)



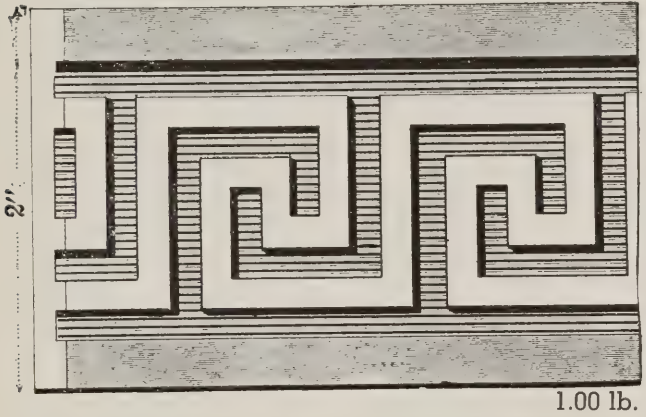
No. 5070



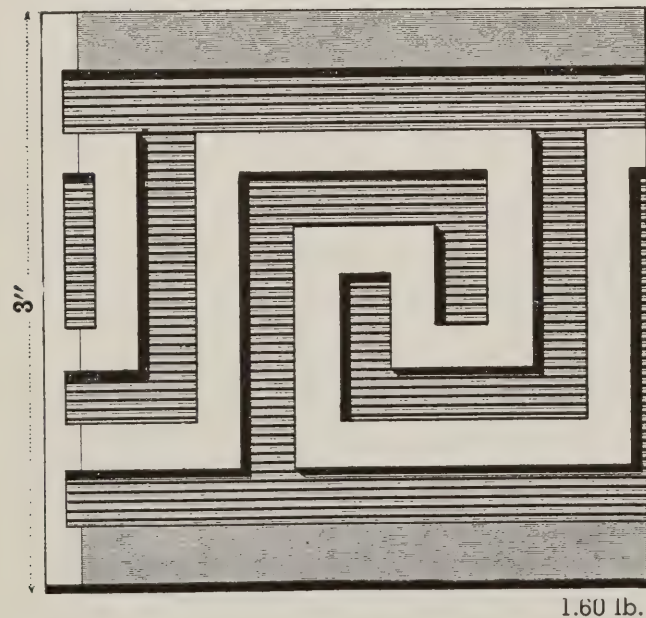
No. 5071



No. 5072



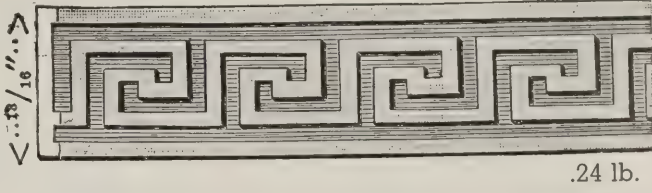
No. 5074



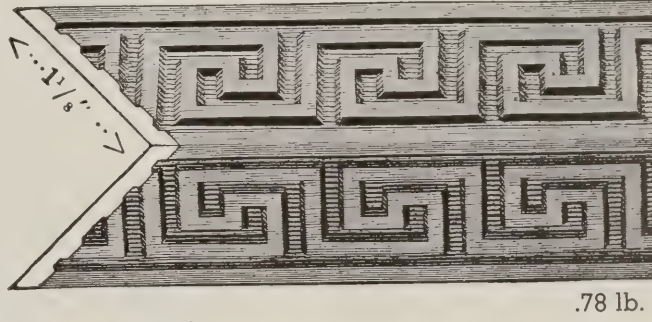
No. 5061



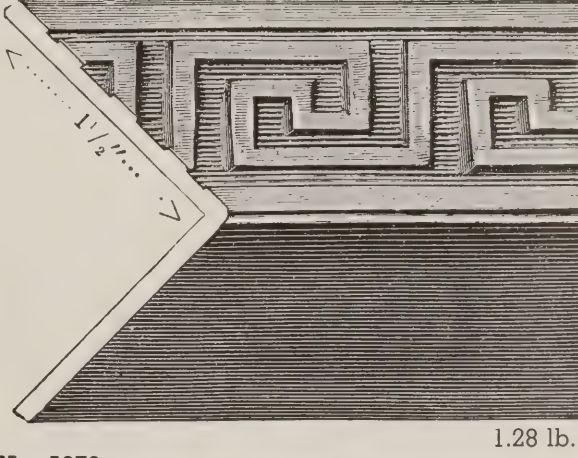
No. 5060



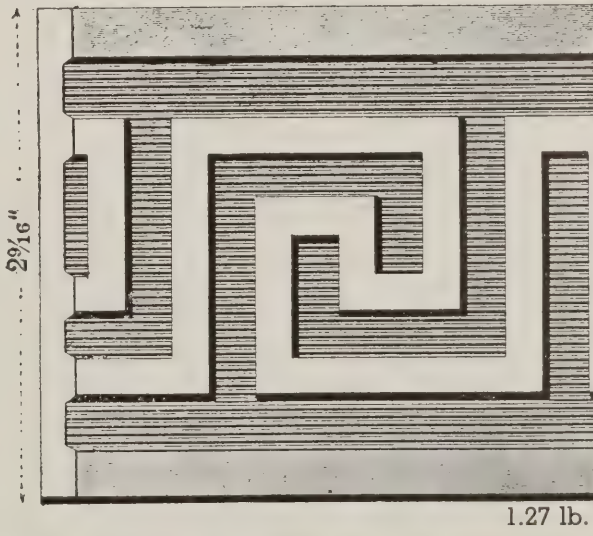
No. 5101



No. 5106



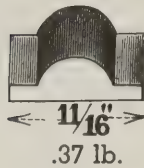
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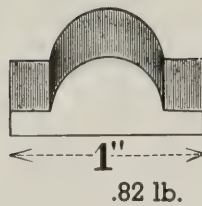
No. 4404



No. 4401



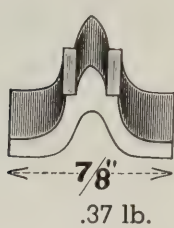
No. 4403



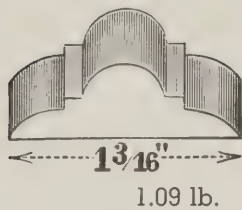
No. 4482



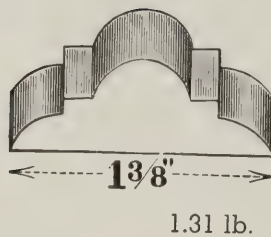
No. 4492



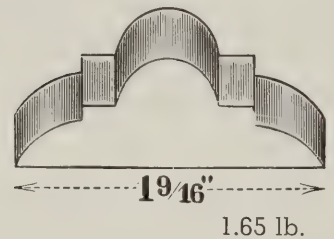
No. 4411



No. 4412



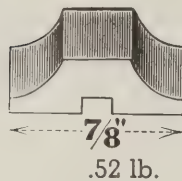
No. 4413



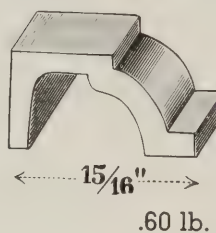
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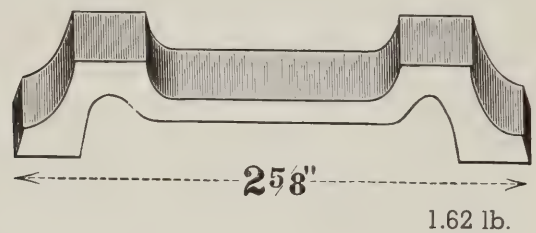
No. 4432



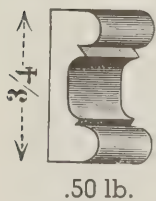
No. 4130



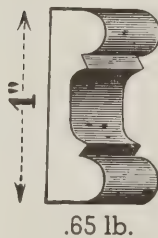
No. 4442



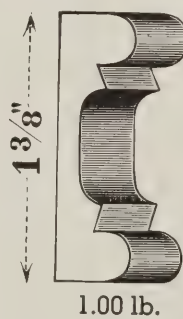
No. 4210



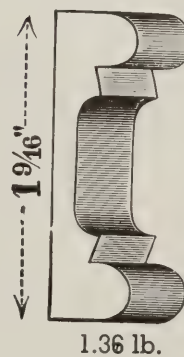
No. 4211



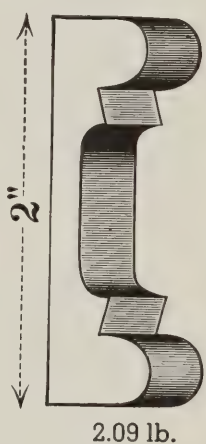
No. 4212



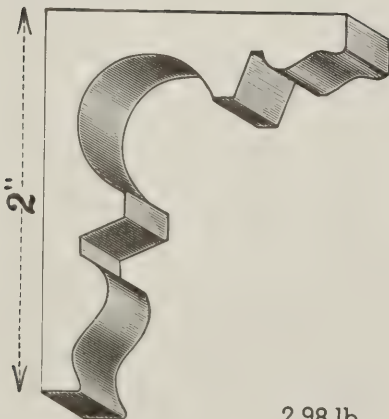
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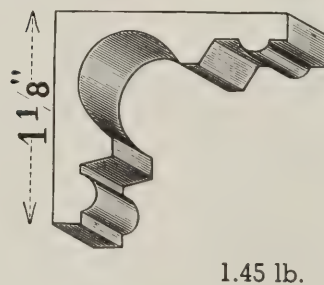
No. 4214



No. 4496



No. 4495

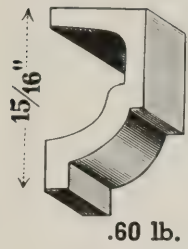


No. 4489

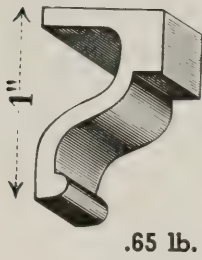




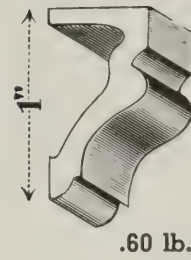
No. 4130



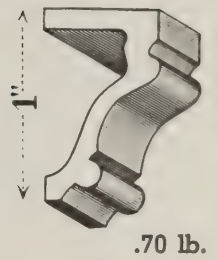
No. 4132



No. 4131



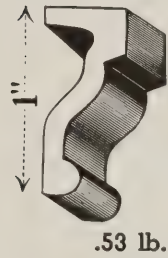
No. 4134



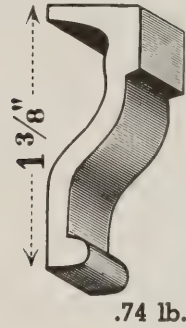
No. 4203



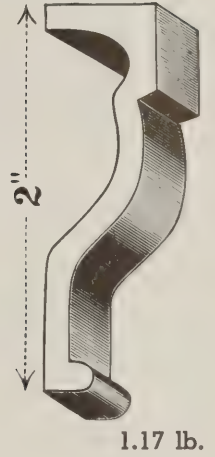
No. 4142



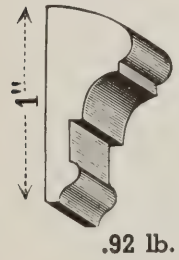
No. 4141



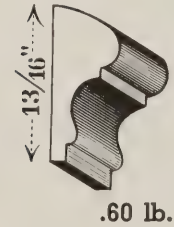
No. 4140



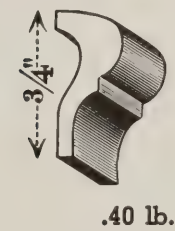
No. 4144



No. 4126



No. 4201



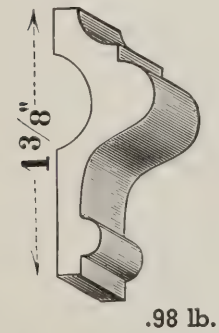
No. 4200



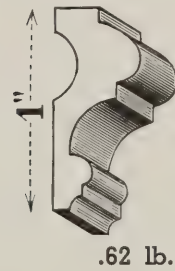
No. 4208



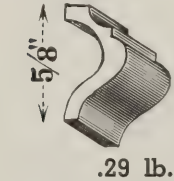
No. 4255



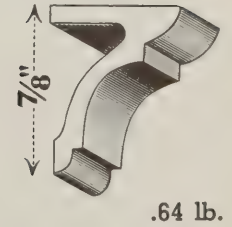
No. 4254



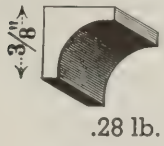
No. 4250



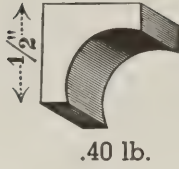
No. 4143



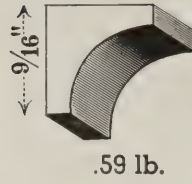
No. 4101



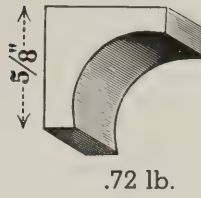
No. 4102



No. 4103



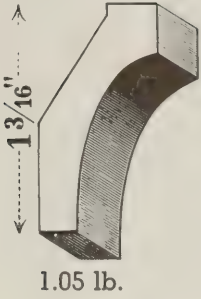
No. 4110



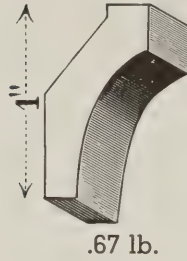
No. 4104



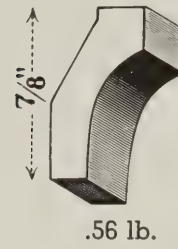
No. 4108



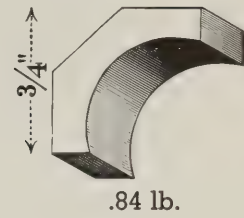
No. 4107



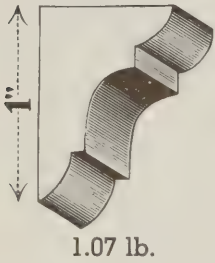
No. 4106



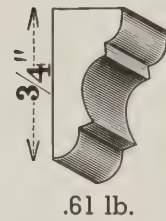
No. 4105



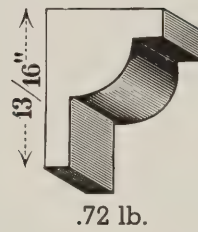
No. 4120



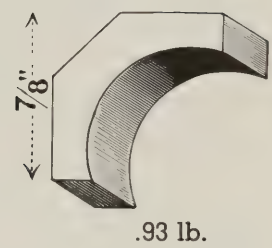
No. 4480



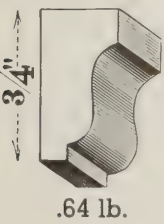
No. 4119



No. 4109



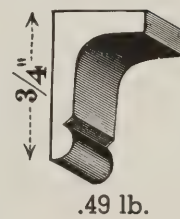
No. 4257



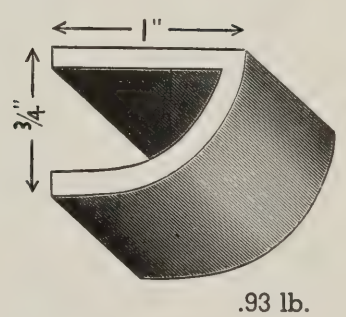
No. 4258



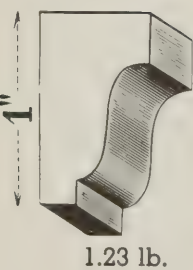
No. 4121



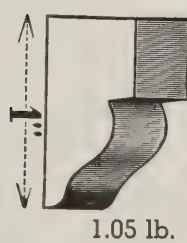
No. 4487



No. 4256



No. 4451



No. 4473



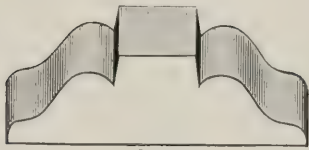
No. 4123





# MOULDINGS FOR GLASS CONSTRUCTION

No. 4471



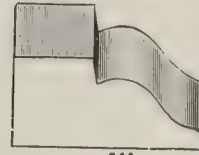
1.41 lb.

No. 4461



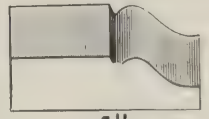
2.17 lb.

No. 4451



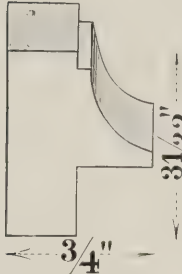
1.05 lb.

No. 4450



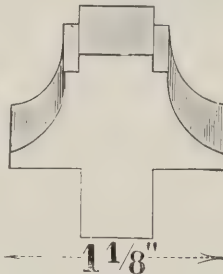
.70 lb.

No. 4620



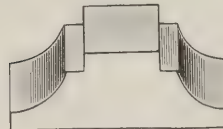
1.63 lb.

No. 4621



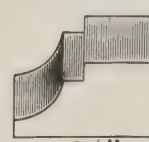
1.96 lb.

No. 4474



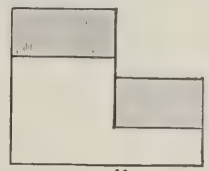
.96 lb.

No. 4473



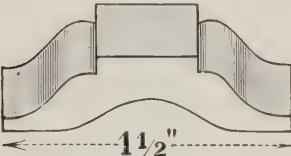
.71 lb.

No. 4460



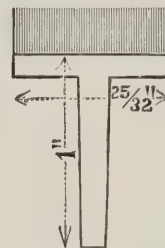
1.36 lb.

No. 4422



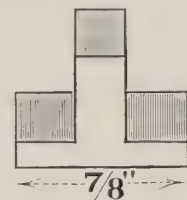
.90 lb.

No. 4619



.65 lb.

No. 4618



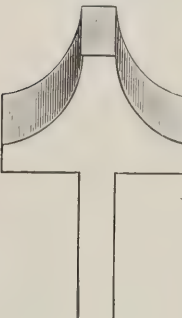
.75 lb.

No. 4470



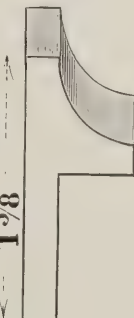
.95 lb.

No. 4602



1.47 lb.

No. 4603



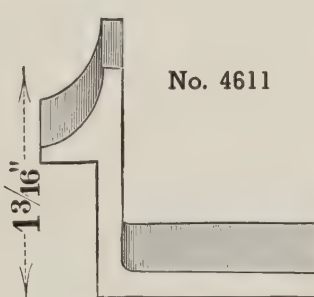
1.13 lb.

No. 4601



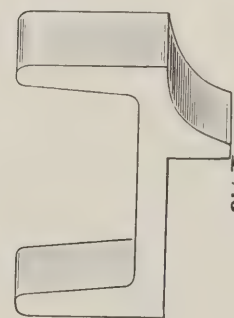
.81 lb.

No. 4611



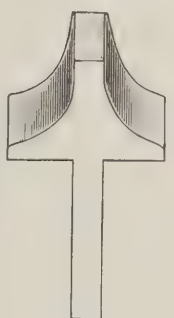
1.15 lb.

No. 4607



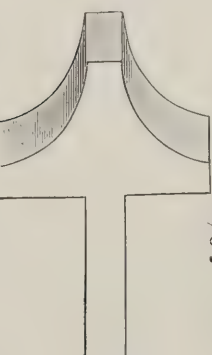
1.41 lb.

No. 4606



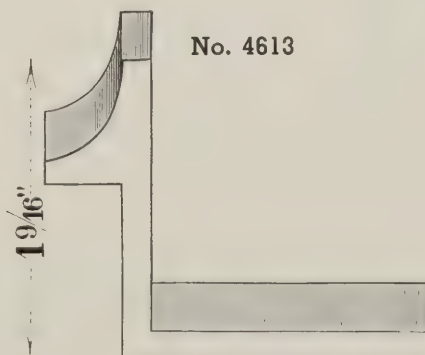
.97 lb.

No. 4604



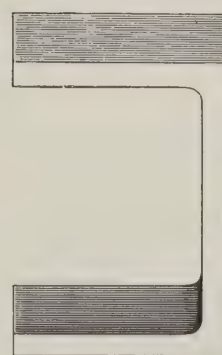
1.68 lb.

No. 4613



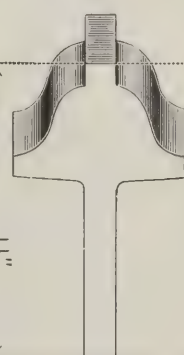
1.96 lb.

No. 4615



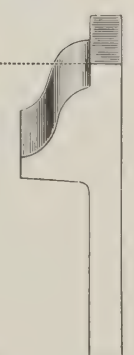
2.05 lb.

No. 4616



1.60 lb.

No. 4617

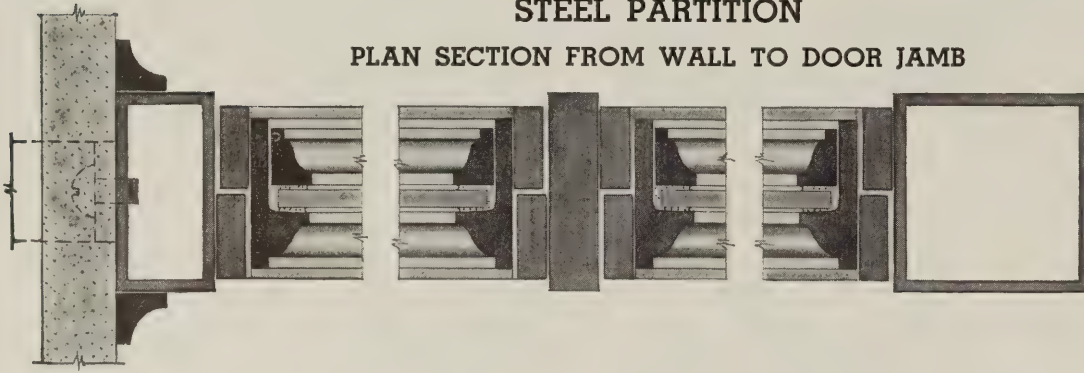


1.36 lb.

# CONSTRUCTION OF STEEL DOORS AND PARTITIONS

## STEEL PARTITION

PLAN SECTION FROM WALL TO DOOR JAMB



Plaster Stop:  
Moulding No. 4102  
Glass Frame:  
Mouldings No. 4617  
and No. 4258

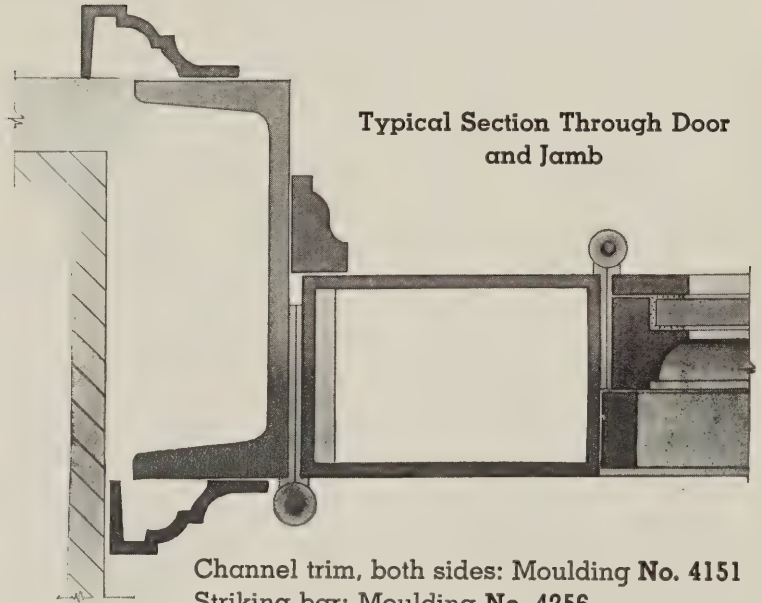
## STEEL DOORS

Illustrations show the application of rolled steel mouldings to steel doors and partitions. For full size details of mouldings, see pages 66, 78, 80, 81.

For information on square and rectangular steel tubing, see page 89.

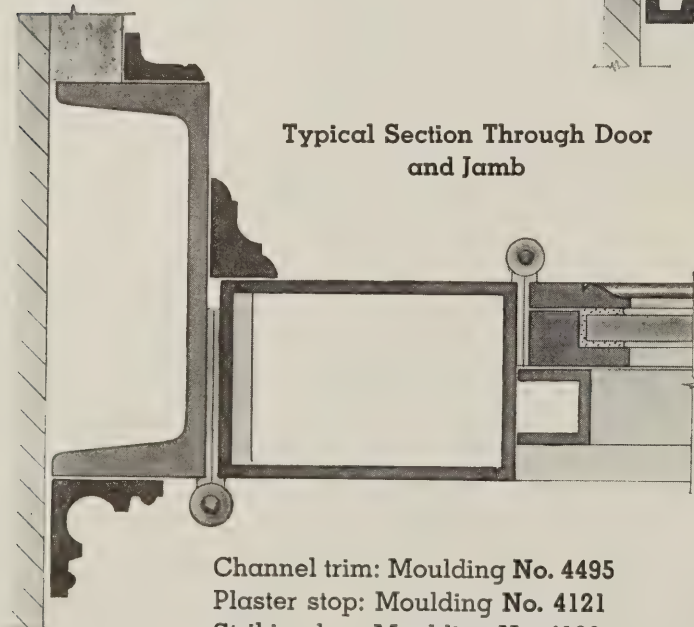
For information on locks, handles, butts, hinges, etc., see pages 108 and 109.

Typical Section Through Door and Jamb



Channel trim, both sides: Moulding No. 4151  
Striking bar: Moulding No. 4256  
Hinged glass frame: Moulding No. 4620

Typical Section Through Door and Jamb



Channel trim: Moulding No. 4495  
Plaster stop: Moulding No. 4121  
Striking bar: Moulding No. 4120  
Hinged glass frame: Mouldings No. 4450 and No. 4460  
Grille frame: Channel No. 4732

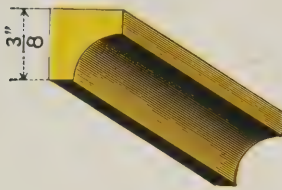
Details are ONE-HALF actual size



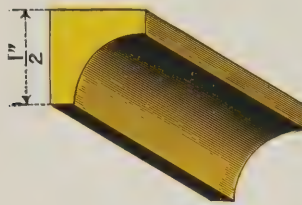
# ARCHITECTURAL BRONZE MOULDINGS

## Cove Mouldings and Glass Framing Sections

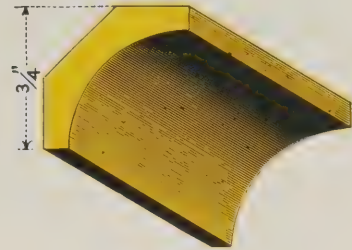
No. 6101



No. 6102



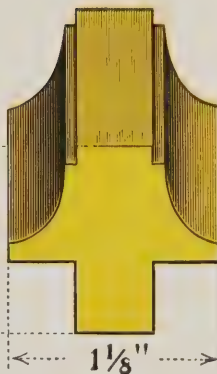
No. 6105



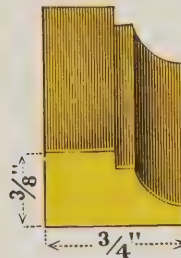
No. 6620



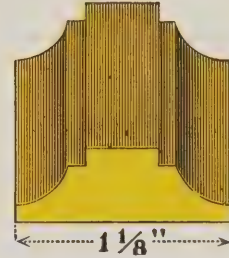
No. 6621



No. 6473

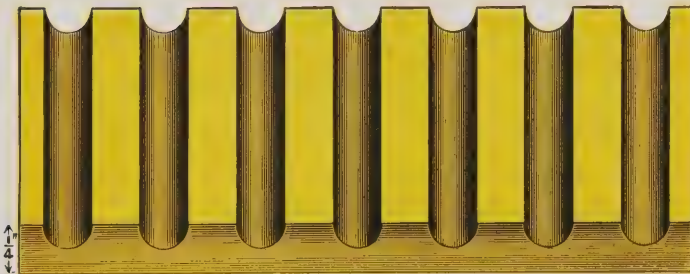


No. 6474



Sections No. 6473, No. 6474, No. 6620 and No. 6621 are so designed as to form perfect mitres.

### FLAT FLUTED SECTIONS



For Architectural Bronze Squares, Flats, Angles, Channels and Tubing, see page 94.

For Architectural Bronze Nosings, see page 63.

For Architectural Bronze Saddles, see pages 49 to 61.

For Architectural Bronze Handrails, see pages 9 and 10.

No. 4566—1" wide  
No. 4558—1 1/2" "  
No. 4557—2" "  
No. 4556—2 1/2" "  
No. 4555—3" "  
No. 4554—3 1/2" "

No. 4553 —4" wide  
No. 4553-Q—4 1/4" "  
No. 4552 —4 1/2" "  
No. 4551 —5" "  
No. 4550 —5 1/2" "  
No. 4559 —6 1/8" "

Detail showing Architectural Bronze Sections used for glass frames in doors or partitions.

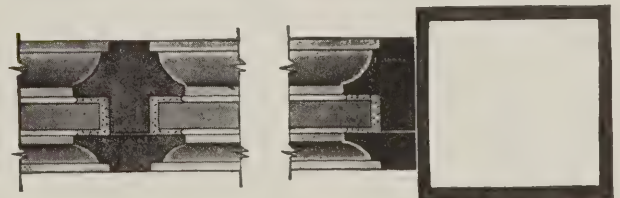


Illustration is One Half actual size.

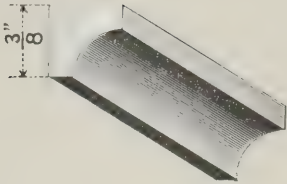
Flat Fluted Sections may be used for pilasters or mullions or as decorative trim.

For full size details, see page 61.

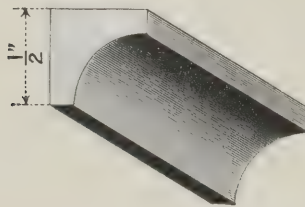
# ALUMINUM MOULDINGS

## COVE MOULDINGS AND GLASS STOPS

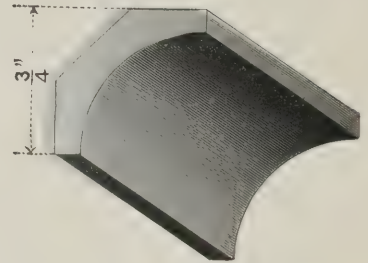
No. 6951



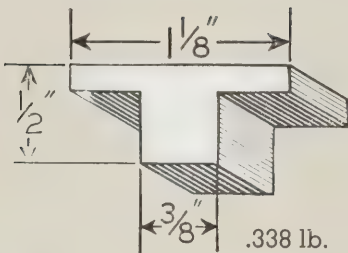
No. 6952



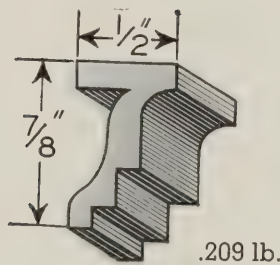
No. 6955



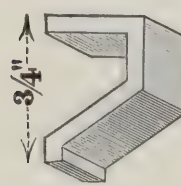
No. 6958



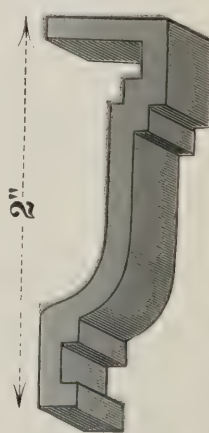
No. 6946



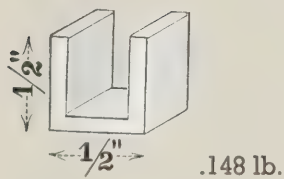
No. 6936



No. 6938



No. 6956



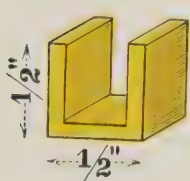
Sections No. 6946 and No. 6958 furnished in 16 foot lengths. Other sections in 20 foot lengths.

For other stock sizes of Aluminum Channels and for Aluminum shapes, rods and tubings, see pages 92 and 93.

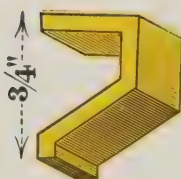
# ARCHITECTURAL BRONZE MOULDINGS

## FOR TRIM AND FOR GLASS STOP

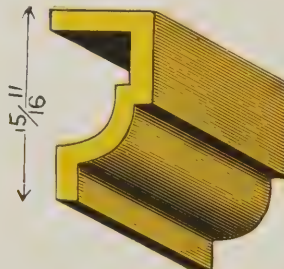
No. 6139



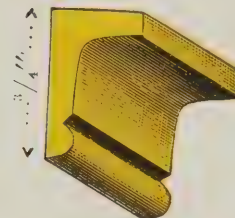
No. 6136



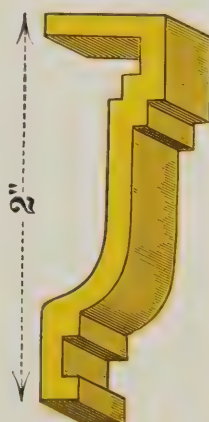
No. 6130



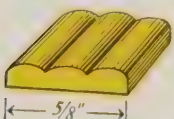
No. 6121



No. 6138



Architectural Bronze  
Tie Band Strip  
12 ft. lengths  
No. 6108



For stock sizes of Architectural Bronze shapes, rods and tubing, see page 94.

Aluminum and Bronze Mouldings are carried in stock in long straight bars. Can also be furnished cut to specified lengths.



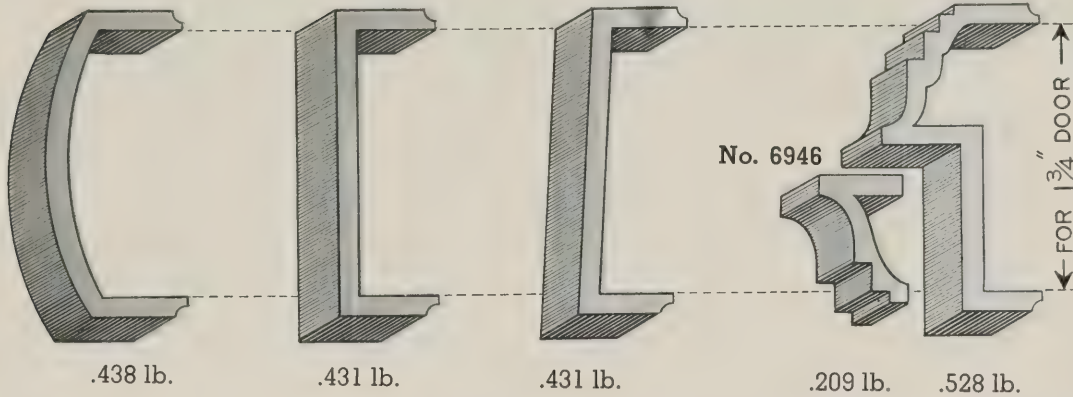
## ALUMINUM DOOR EDGINGS

No. 6944

No. 6940

No. 6941

No. 6945



For use with 1 3/4" thick doors of wood, kalamein, or tubular construction or for doors constructed of steel channels faced with sheets of metal, wall board or plywood. For construction details see page 86.

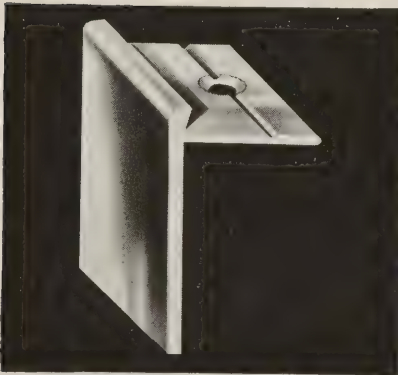
Carried in stock in lengths of 16 feet.

## POLISHED ALUMINUM NOSINGS

for counters, tables, display shelves, etc.

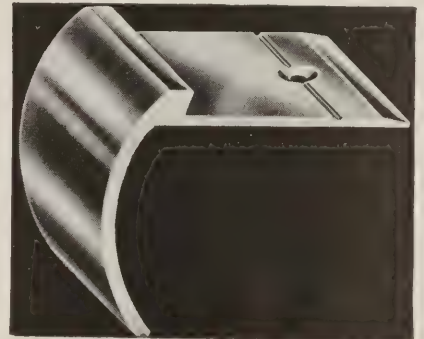
No. 5312-K

1 1/8" under flange,  
for 1/8" material



No. 5002-L

1 1/8" under flange  
for 1/8" material



These nosings are furnished with exposed surfaces polished to a high luster finish.

Screw holes and wood screws are provided.

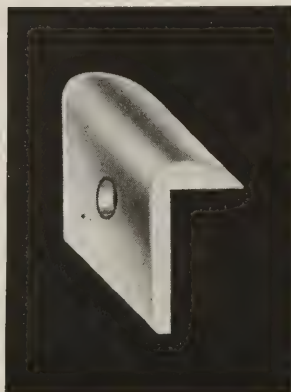
Carried in stock in 12 ft. lengths.

A wide variety of polished nosings, edgings and mouldings can be supplied on short notice. Write for special catalogue: "Wooster Mouldings."

No. 4020 — 5/8" wide  
for 1/16" material

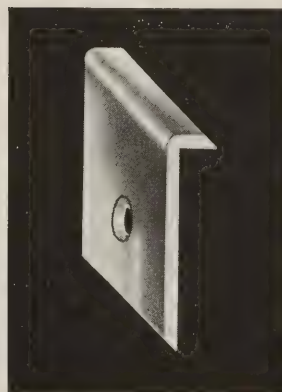


No. 7010-E  
3/4" under flange



No. 7012-H  
1 5/16" under flange

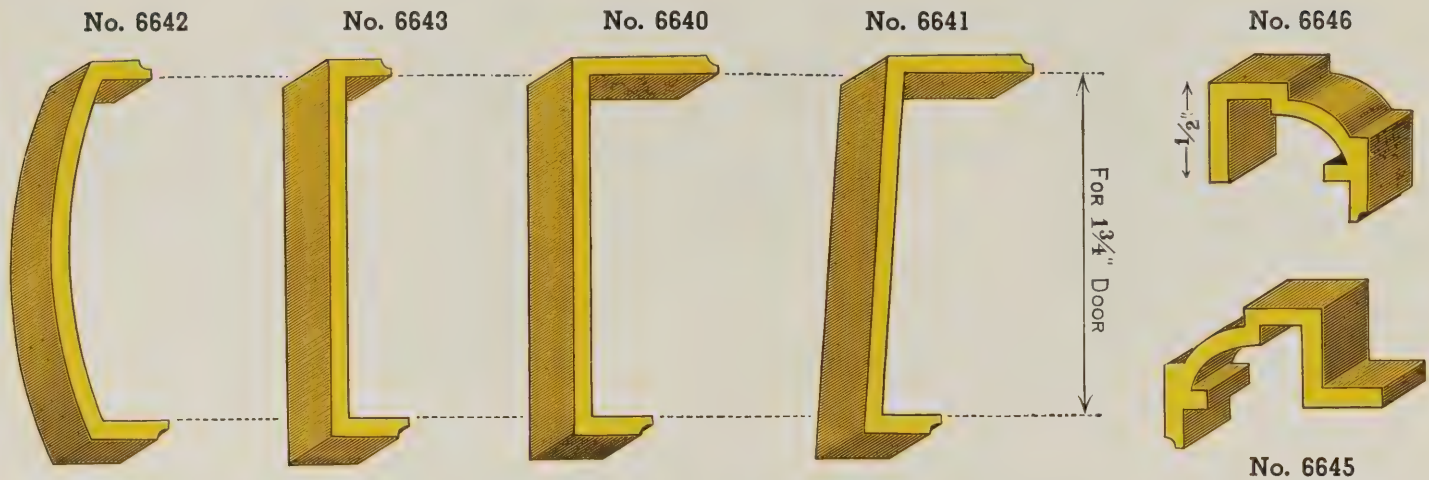
No. 7012-N  
1 1/4" under flange



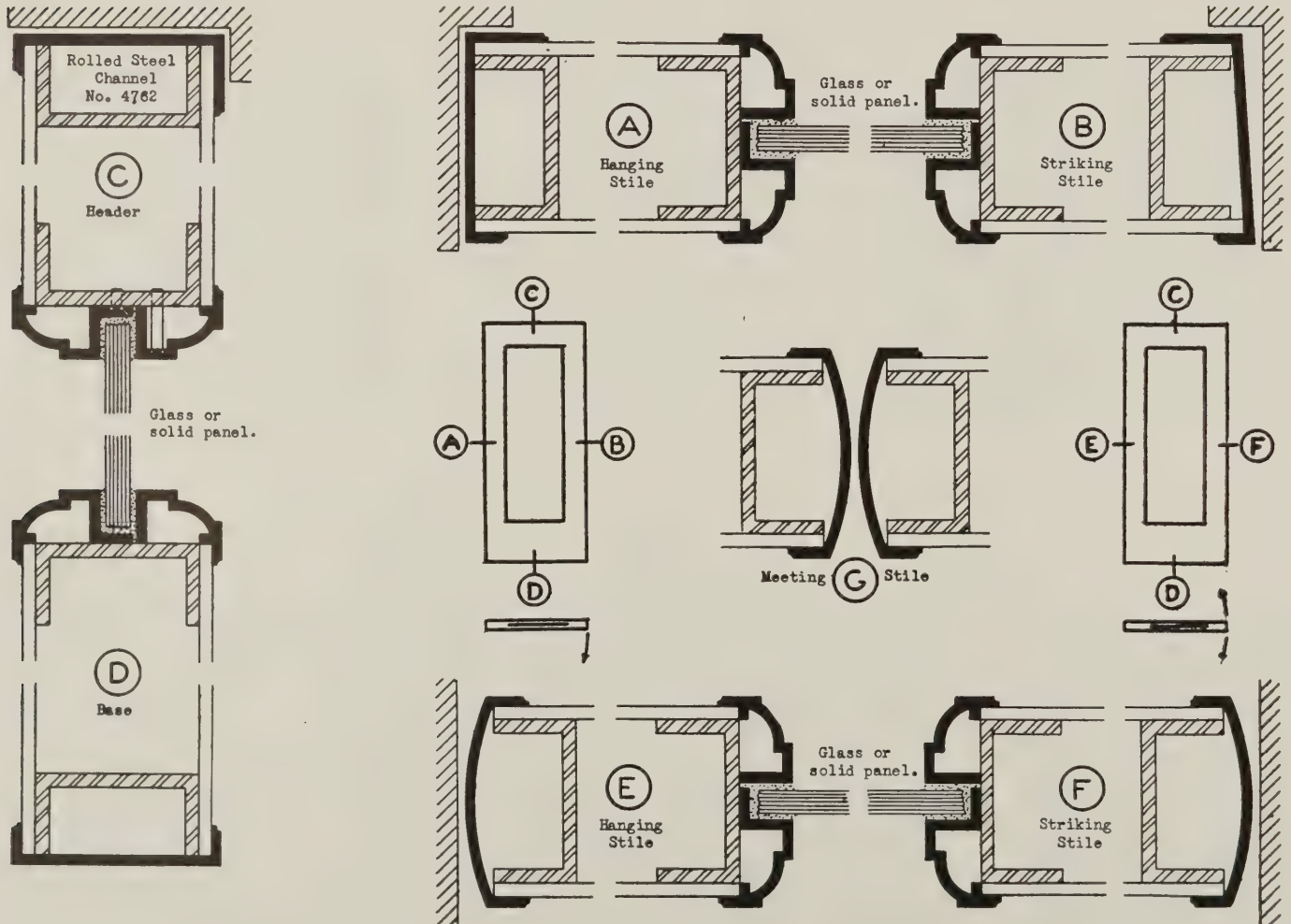
No. 7011-S  
1 1/2" under flange



# ARCHITECTURAL BRONZE DOOR EDGINGS



Architectural Bronze Door Edgings may be used for kalamein, wood or tubular doors or for doors constructed of steel channels faced with metal, plastic or plywood as shown in the details below.



Construction details are not actual size.



# TUBING, SHAPES, RODS



STEEL Shapes and Tubing in this section are carried in stock in random lengths of about 20 feet. Stock lengths of Aluminum and Bronze materials are shown for each item. They can also be furnished cut to specified lengths.

The range of sizes in the following pages represents our complete stock list as this catalogue goes to press. However, we are adding new sizes to our stock constantly and will issue revised stock lists of tubing, shapes and rods from time to time. Please write for current stock list.

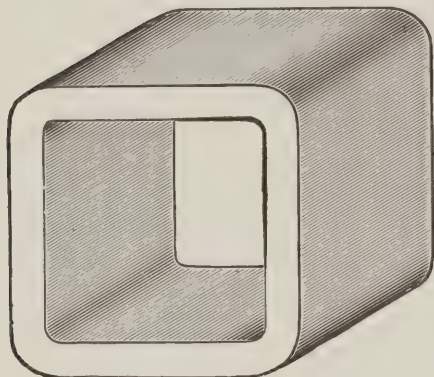
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## Subjects covered in this section:

	Page No.
<b>Aluminum</b> Squares, Flats, Angles, Channels, Tees, Square Tubing,	
Rectangular Tubing .....	93
Rounds, Half Rounds, Round Tubing, Pipe.....	92
<b>Bronze</b> Squares, Flats, Angles, Channels, Tees, Square Tubing,	
Rectangular Tubing .....	94
<b>Steel</b> Hot Rolled Angles, Channels, Tees and Zees.....	90
Cold Rolled Angles .....	92
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(also see page 74)	
Square and Rectangular Tubing, Mechanical.....	89
Square and Rectangular Tubing, Heavy Wall.....	88

# Heavy Wall Square and Rectangular Steel Tubing

Slightly Rounded Corners

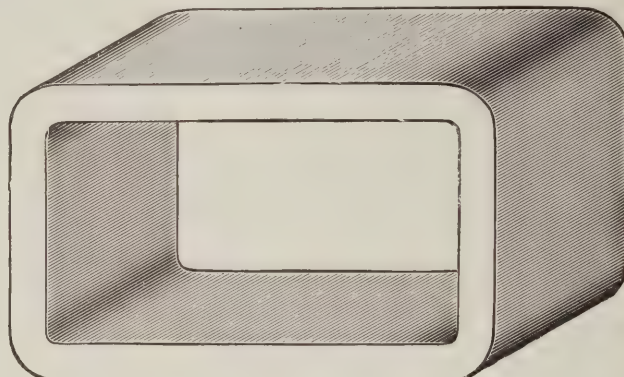


## SQUARE

1" x 1" x .120" Wall
1 1/4" x 1 1/4" x .120"
1 1/4" x 1 1/4" x .135"
1 1/4" x 1 1/4" x 3/16"
1 1/2" x 1 1/2" x .120"
1 1/2" x 1 1/2" x .140"
1 1/2" x 1 1/2" x 3/16"
2" x 2" x .120"
2" x 2" x .145"
2" x 2" x 3/16"
2" x 2" x 1/4"
2 1/2" x 2 1/2" x .120"
2 1/2" x 2 1/2" x 3/16"
2 1/2" x 2 1/2" x 1/4"
3" x 3" x 1/8"
3" x 3" x 3/16"
3 1/2" x 3 1/2" x 3/16"
4" x 4" x .134"
4" x 4" x 3/16"
4" x 4" x 1/4"

## OUTSIDE MEASUREMENTS

Additional sizes can be furnished from mill.



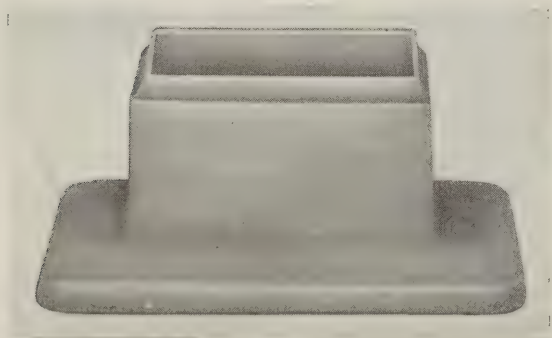
## RECTANGULAR

1 1/2" x 2 1/2" x .120" Wall
1 1/2" x 2 1/2" x .145"
2" x 3" x .120"
2 1/2" x 5" x 3/16"
3" x 4" x 3/16"
3" x 6" x 3/16"
3" x 6" x 1/4"
3" x 8" x 3/16"
4" x 6" x 3/16"
4" x 6" x 1/4"
4" x 8" x 3/16"

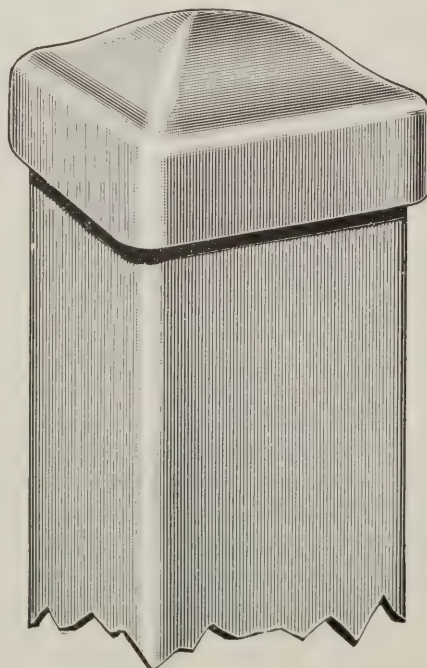
## POST CAPS

We carry in stock Post Caps for steel tubing from 1 1/2" square to 4" square and from 3" x 4" rectangular to 4" x 8" rectangular. For details, see page 19.

## SQUARE TUBE SOCKETS

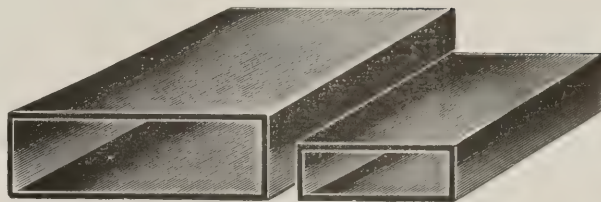
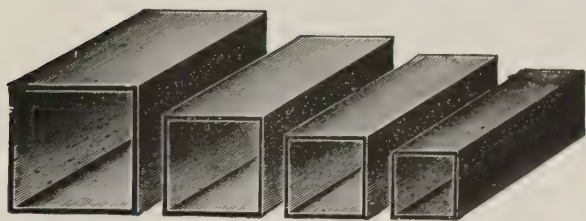


Cast Iron Square Tube Sockets carried in stock for posts from 1" square to 3" square. For dimensions, see page 22.





# Cold Drawn Mechanical Steel Tubing



## SQUARE

$\frac{3}{8}$ " x	$\frac{3}{8}$ " x	No. 18	BWG
$\frac{1}{2}$ " x	$\frac{1}{2}$ " x	"	18
$\frac{1}{2}$ " x	$\frac{1}{2}$ " x	"	16
$\frac{5}{8}$ " x	$\frac{5}{8}$ " x	"	20
$\frac{5}{8}$ " x	$\frac{5}{8}$ " x	"	18
$\frac{5}{8}$ " x	$\frac{5}{8}$ " x	"	16
$\frac{3}{4}$ " x	$\frac{3}{4}$ " x	"	20
$\frac{3}{4}$ " x	$\frac{3}{4}$ " x	"	16
$\frac{7}{8}$ " x	$\frac{7}{8}$ " x	"	20
$\frac{7}{8}$ " x	$\frac{7}{8}$ " x	"	16

1" x	1" x	"	20
1" x	1" x	"	18
1" x	1" x	"	16
1" x	1" x	"	14
1" x	1" x	"	11

$1\frac{1}{8}$ " x	$1\frac{1}{8}$ " x	"	16
$1\frac{1}{4}$ " x	$1\frac{1}{4}$ " x	"	20
$1\frac{1}{4}$ " x	$1\frac{1}{4}$ " x	"	18
$1\frac{1}{4}$ " x	$1\frac{1}{4}$ " x	"	16
$1\frac{1}{4}$ " x	$1\frac{1}{4}$ " x	"	14
$1\frac{1}{4}$ " x	$1\frac{1}{4}$ " x	"	11
$1\frac{1}{2}$ " x	$1\frac{1}{2}$ " x	"	20
$1\frac{1}{2}$ " x	$1\frac{1}{2}$ " x	"	18
$1\frac{1}{2}$ " x	$1\frac{1}{2}$ " x	"	16
$1\frac{1}{2}$ " x	$1\frac{1}{2}$ " x	"	14
$1\frac{1}{2}$ " x	$1\frac{1}{2}$ " x	"	11
$1\frac{3}{4}$ " x	$1\frac{3}{4}$ " x	"	16
$1\frac{3}{4}$ " x	$1\frac{3}{4}$ " x	"	14

2" x	2" x	"	16
2" x	2" x	"	14
2" x	2" x	"	11
$2\frac{1}{2}$ " x	$2\frac{1}{2}$ " x	"	14
$2\frac{1}{2}$ " x	$2\frac{1}{2}$ " x	"	11
3" x	3" x	"	16
3" x	3" x	"	14
3" x	3" x	"	10
3" x	3" x	"	7
$3\frac{1}{2}$ " x	$3\frac{1}{2}$ " x	"	7
4" x	4" x	"	10
4" x	4" x	"	7
4" x	4" x	"	4

## OUTSIDE MEASUREMENTS

Additional sizes can be  
furnished from mill

## RECTANGULAR

$\frac{3}{8}$ " x	$\frac{3}{4}$ " x	No. 16	BWG	2" x 3" x	No. 14	BWG
$\frac{3}{8}$ " x	1" x	"	16	2" x 3" x	"	11
$\frac{1}{2}$ " x	$1\frac{1}{4}$ " x	"	16	2" x 4" x	"	14
$\frac{5}{8}$ " x	2" x	"	14	$2\frac{1}{2}$ " x 1" x	"	14
$\frac{3}{4}$ " x	$\frac{3}{8}$ " x	"	16	$2\frac{1}{2}$ " x $1\frac{1}{4}$ " x	"	14
$\frac{3}{4}$ " x	$1\frac{1}{2}$ " x	"	16	$2\frac{1}{2}$ " x $1\frac{1}{2}$ " x	"	14
$\frac{3}{4}$ " x	$1\frac{1}{2}$ " x	"	14	$2\frac{1}{2}$ " x $1\frac{1}{2}$ " x	"	11
1" x	$\frac{3}{8}$ " x	"	16	$2\frac{1}{2}$ " x 5" x	"	7
1" x	$1\frac{1}{2}$ " x	"	14	3" x 1" x	"	14
1" x	2" x	"	14	3" x $1\frac{1}{4}$ " x	"	14
1" x	$2\frac{1}{2}$ " x	"	14	3" x $1\frac{1}{2}$ " x	"	16
1" x	3" x	"	14	3" x $1\frac{1}{2}$ " x	"	14
1" x	$3\frac{1}{2}$ " x	"	14	3" x 2" x	"	14
$1\frac{1}{4}$ " x	$\frac{1}{2}$ " x	"	16	3" x 2" x	"	11
$1\frac{1}{4}$ " x	$1\frac{3}{4}$ " x	"	14	3" x 4" x	"	7
$1\frac{1}{4}$ " x	2" x	"	14	3" x 6" x	"	7
$1\frac{1}{4}$ " x	$2\frac{1}{2}$ " x	"	14	3" x 6" x	"	4
$1\frac{1}{4}$ " x	3" x	"	14	3" x 8" x	"	7
$1\frac{1}{4}$ " x	$3\frac{1}{2}$ " x	"	14	$3\frac{1}{2}$ " x 1" x	"	14
$1\frac{1}{2}$ " x	$\frac{3}{4}$ " x	"	16	$3\frac{1}{2}$ " x $1\frac{1}{4}$ " x	"	14
$1\frac{1}{2}$ " x	$\frac{3}{4}$ " x	"	14	$3\frac{1}{2}$ " x $1\frac{1}{2}$ " x	"	16
$1\frac{1}{2}$ " x	1" x	"	14	$3\frac{1}{2}$ " x $1\frac{1}{2}$ " x	"	14
$1\frac{1}{2}$ " x	2" x	"	14	4" x 2" x	"	14
$1\frac{1}{2}$ " x	$2\frac{1}{2}$ " x	"	14	4" x 3" x	"	7
$1\frac{1}{2}$ " x	$2\frac{1}{2}$ " x	"	11	4" x 6" x	"	7
$1\frac{1}{2}$ " x	3" x	"	16	4" x 6" x	"	4
$1\frac{1}{2}$ " x	3" x	"	14	4" x 8" x	"	7
$1\frac{1}{2}$ " x	$3\frac{1}{2}$ " x	"	16	5" x $2\frac{1}{2}$ " x	"	7
$1\frac{1}{2}$ " x	$3\frac{1}{2}$ " x	"	14	6" x 3" x	"	7
$1\frac{3}{4}$ " x	$1\frac{1}{4}$ " x	"	14	6" x 3" x	"	4
2" x	$\frac{5}{8}$ " x	"	14	6" x 4" x	"	7
2" x	1" x	"	14	6" x 4" x	"	4
2" x	$1\frac{1}{4}$ " x	"	14	8" x 3" x	"	7
2" x	$1\frac{1}{2}$ " x	"	14	8" x 4" x	"	7

Radius of Corners is governed by the wall thickness.

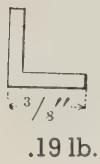
Tubing with 11 ga. and heavier wall has slightly rounded corners.

Square and rectangular steel tubing is carried in stock in long random lengths up to 20 feet.

Can also be furnished cut to specified lengths.

# Hot Rolled Steel Angles, Channels, Tees and Zees

No. 4700



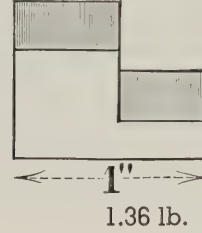
No. 4709



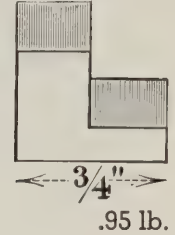
No. 4639 - 120°



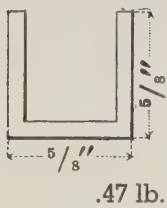
No. 4460



No. 4470

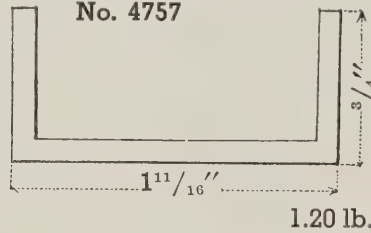


No. 4731

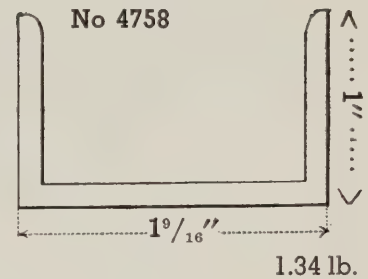


For cold rolled steel angles see page 92

No. 4757

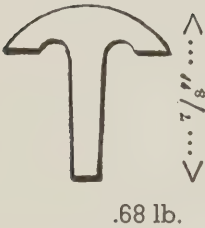


No. 4758

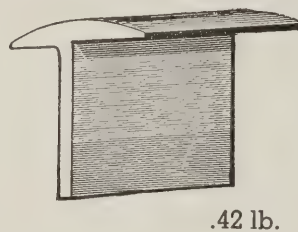


For cold rolled steel channels, see page 91

No. 4645



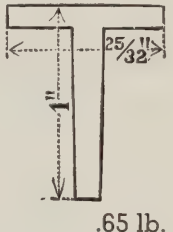
No. 4640



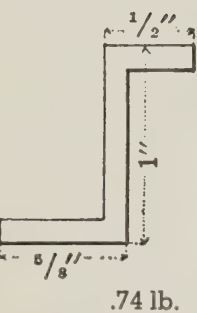
No. 4618



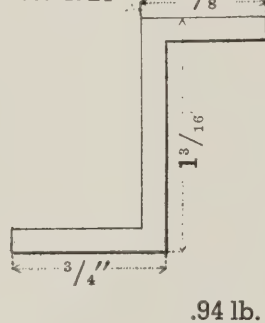
No. 4619



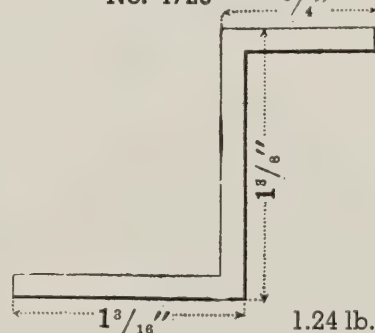
No. 4722



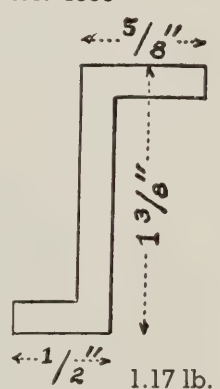
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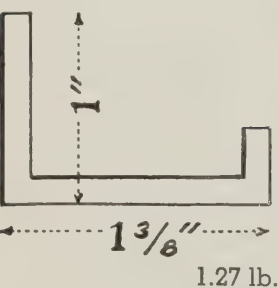
No. 4720



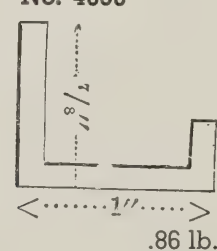
No. 4655



No. 4656



No. 4650



## J & L Junior Channels Dimensions

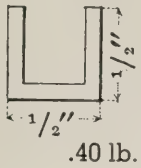
Section Index	Depth of Channel, Inches	Weight per Foot, Pounds	Flange Width		Web Thickness	
			Inches and Decimal Parts	Inches and Fractional Parts	Decimal Parts of an Inch	Fractional Parts of an Inch
C-758	10	6.50	1.125	1 1/8	.150	5/32
C-752	10	8.4	1.500	1 1/2	.170	11/64
C-700	12	10.6	1.500	1 1/2	.190	3/16



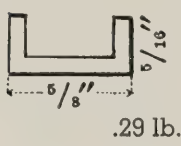
# COLD ROLLED STEEL CHANNELS

## Square Root and Square Edge

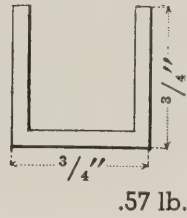
No. 4730



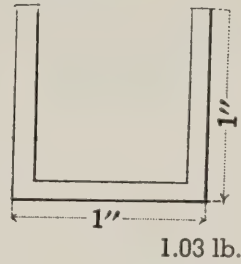
No. 4735



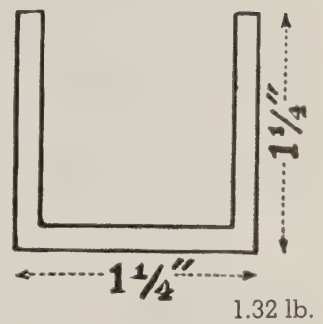
No. 4732



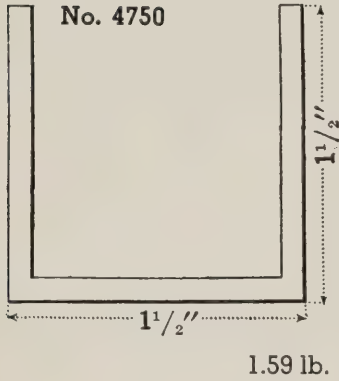
No. 4734



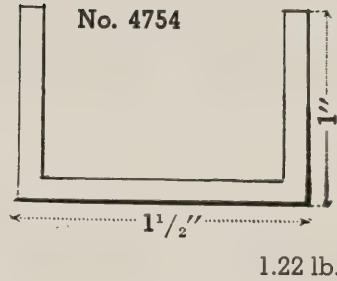
No. 4744



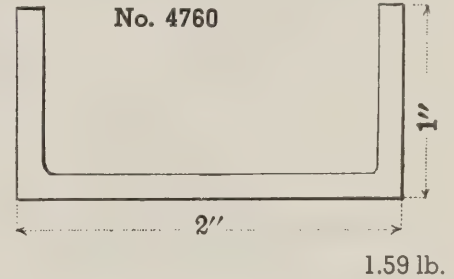
No. 4750



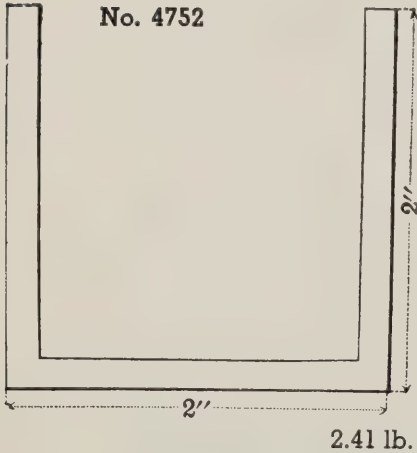
No. 4754



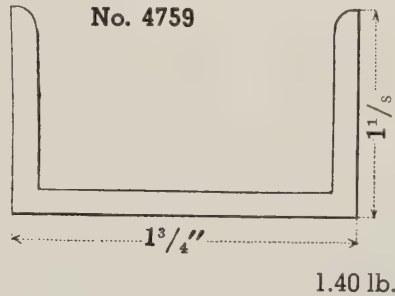
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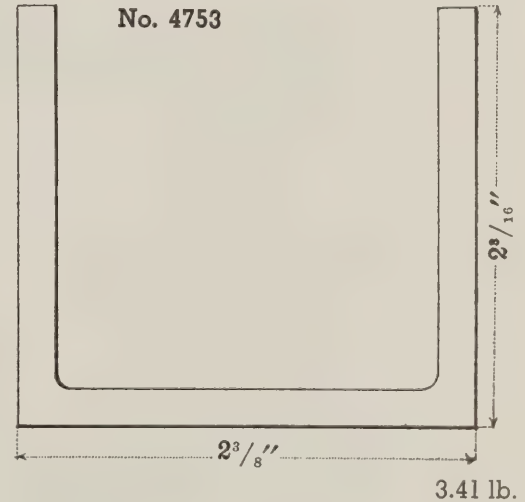
No. 4752



No. 4759



No. 4753



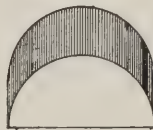
## COLD DRAWN STEEL HALF ROUNDS



.334 lb.  
Width — 1/2"  
Height — 1/4"



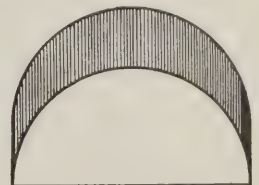
.552 lb.  
Width — 5/8"  
Height — 5/16"



.751 lb.  
Width — 3/4"  
Height — 3/8"



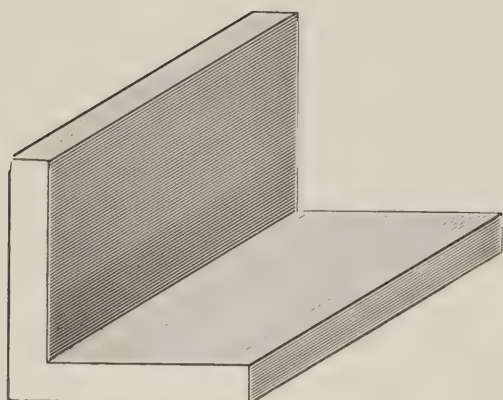
1.335 lb.  
Width — 1"  
Height — 1/2"



2.086 lb.  
Width — 1 1/4"  
Height — 5/8"

# COLD ROLLED STEEL ANGLES

Square Root and Square Edge



## Equal leg

$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "
$\frac{5}{8}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	2" x 2" x $\frac{1}{8}$ "
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{3}{16}$ "
1" x 1" x $\frac{1}{8}$ "	$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{3}{16}$ "
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	2" x 2" x $\frac{3}{16}$ "

## Unequal leg

$\frac{5}{8}$ " x 1" x $\frac{1}{8}$ "	1" x $1\frac{1}{2}$ " x $\frac{1}{8}$ "
$\frac{3}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	1" x 2" x $\frac{1}{8}$ "

# ALUMINUM RODS, PIPE AND TUBING

Suitable for Alumiliting



## ALUMINUM HALF ROUND

random lengths

Dia.  $\frac{1}{4}$ "  
Height  $\frac{1}{8}$ "  
Weight .03 lb.



## ALUMINUM ROUNDS

Alloy 63 S-F  
16 foot lengths

Dia.	Weight
$\frac{1}{2}$ "	.235 lb.
$\frac{5}{8}$ "	.368
$\frac{3}{4}$ "	.530
1"	.942



## ALUMINUM I.P.S. PIPE

Alloy 61 ST-85 — 12 foot lengths, except as noted.

Nominal Size	O.D.	Wall	Weight per foot
$1\frac{1}{4}$ "*	1.660"	.140"	.785 lb.
$1\frac{1}{2}$ "	1.900"	.145"	.939
2"	2.375"	.154"	1.262

\* Alloy 63 ST-5 — 16 ft. lengths

This pipe is stronger and has a better finish than standard aluminum pipe.



## ALUMINUM ROUND TUBING

Alloy 3 S-H 14  
12 foot lengths

O.D.	Wall	Weight
1"	.058"	.204 lb.
$1\frac{1}{4}$ "	.058"	.259
$1\frac{1}{2}$ "	.065"	.347



# ALUMINUM RODS AND SHAPES

SHARP CORNERS — ALLOY 63 S-T5 — Suitable for alumilting

16 foot lengths, except as noted.

Can also be furnished cut to specified lengths

## ALUMINUM ANGLES

Equal Leg

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.131 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	.168
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.206
1" x 1" x $\frac{1}{8}$ "	.281
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	.356
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "	.431
2" x 2" x $\frac{1}{8}$ "	.581

## ALUMINUM ANGLES

Unequal Leg

	Weight
$\frac{1}{2}$ " x 1" x $\frac{1}{8}$ "	.206 lb.
$\frac{1}{2}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	.244
$\frac{3}{4}$ " x 1" x $\frac{1}{8}$ "	.244
$\frac{3}{4}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "	.319
1" x $1\frac{1}{2}$ " x $\frac{1}{8}$ "	.356
1" x 2" x $\frac{1}{8}$ "	.431

## ALUMINUM SQUARES

	Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.169 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ "	.300
$\frac{5}{8}$ " x $\frac{5}{8}$ "	.468
$\frac{3}{4}$ " x $\frac{3}{4}$ "	.674
1" x 1"	1.200
$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	1.875

## ALUMINUM CHANNELS

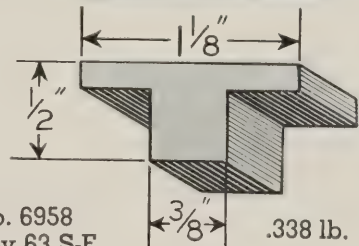
	Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ " x .109"	.120 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{32}$ "	.148
$\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ "	.187
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.263
1" x 1" x $\frac{1}{8}$ "	.413
$1\frac{1}{4}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.300
$1\frac{1}{4}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "**	.337
$1\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "**	.337
$1\frac{1}{2}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "**	.374
2" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.413
2" x 1" x $\frac{1}{8}$ "**	.564
$2\frac{1}{4}$ " x $\frac{7}{8}$ " x $\frac{1}{8}$ "**	.563
3" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.563
3" x 1" x $\frac{1}{8}$ "	.713

\*\*20 foot lengths

## ALUMINUM FLATS

	Weight		Weight
$\frac{1}{8}$ " x 1"	.150 lb.	$\frac{3}{8}$ " x $\frac{3}{4}$ "	.338 lb.
$\frac{1}{8}$ " x $1\frac{1}{4}$ "	.187	$\frac{3}{8}$ " x 1"	.450
$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.226	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	.563
$\frac{1}{8}$ " x 2"	.300	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	.674
$\frac{3}{16}$ " x 1"	.226	$\frac{3}{8}$ " x 2"	.900
$\frac{3}{16}$ " x $1\frac{1}{2}$ "	.337	$\frac{3}{8}$ " x 3"	1.350
$\frac{3}{16}$ " x 2"	.450	$\frac{1}{2}$ " x 1"	.600
$\frac{1}{4}$ " x $\frac{1}{2}$ "	.150	$\frac{1}{2}$ " x $1\frac{1}{4}$ "	.750
$\frac{1}{4}$ " x $\frac{3}{4}$ "	.224	$\frac{1}{2}$ " x $1\frac{1}{2}$ "	.900
$\frac{1}{4}$ " x 1"	.300	$\frac{1}{2}$ " x 2"	1.200
$\frac{1}{4}$ " x $1\frac{1}{4}$ "	.374	$\frac{1}{2}$ " x $2\frac{1}{2}$ "	1.500
$\frac{1}{4}$ " x $1\frac{1}{2}$ "	.450	$\frac{1}{2}$ " x 3"	1.800
$\frac{1}{4}$ " x 2"	.600	$\frac{3}{4}$ " x $1\frac{1}{2}$ "	1.350
$\frac{1}{4}$ " x $2\frac{1}{2}$ "	.750	$\frac{3}{4}$ " x 2"	1.800
$\frac{1}{4}$ " x 3"	.900	1" x $1\frac{1}{2}$ "	1.800
		1" x 2"	2.400

## ALUMINUM TEE



No. 6958  
Alloy 63 S-F

.338 lb.

# ALUMINUM SQUARE AND RECTANGULAR TUBING

SHARP CORNERS Alloy 3 S-F, As Drawn

18 foot lengths, except as noted.

Can also be furnished cut to specified lengths.

## ALUMINUM SQUARE TUBING

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x .062"	.130 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x .062"	.167
$\frac{3}{4}$ " x $\frac{3}{4}$ " x .062"	.205
1" x 1" x .062**	.278
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x .078**	.438
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x .078**	.532
2" x 2" x .078**	.720

\* 16 foot lengths

\*\*20 foot lengths

## ALUMINUM RECTANGULAR TUBING

	Weight
$\frac{1}{2}$ " x 1" x .078"	.246 lb.
$\frac{3}{4}$ " x $1\frac{1}{2}$ " x .078"	.292
1" x $1\frac{1}{2}$ " x .078"	.431
1" x 2" x .083"	.553
$1\frac{1}{4}$ " x $2\frac{1}{2}$ " x .083"	.700
$1\frac{1}{2}$ " x 2" x .078"	.622
$1\frac{3}{4}$ " x 3" x .125***	1.323
$1\frac{3}{4}$ " x 4" x .125***	1.650
$1\frac{3}{4}$ " x 5" x .125***	1.910

For Aluminum Mouldings, see pages 84 and 85  
For Aluminum Handrails, see pages 9 and 10  
For Aluminum Saddles, see pages 50, 51, 52

# EXTRUDED BRONZE RODS AND SHAPES

Match the color of Bronze Handrails, Mouldings and Saddles

## EXTRUDED BRONZE SQUARES

Sharp Corners

16 Foot Lengths

	Weight		Weight
$\frac{3}{8}$ " x $\frac{3}{8}$ "	.518 lb.	$\frac{3}{4}$ " x $\frac{3}{4}$ "	2.075 lb.
$\frac{1}{2}$ " x $\frac{1}{2}$ "	.922	1" x 1"	3.689
$\frac{5}{8}$ " x $\frac{5}{8}$ "	1.441	$1\frac{1}{4}$ " x $1\frac{1}{4}$ "	5.76

## EXTRUDED BRONZE FLATS

Sharp Corners

16 Foot Lengths

	Weight		Weight
$\frac{1}{8}$ " x $\frac{1}{2}$ "	.231 lb.	$\frac{3}{16}$ " x $1\frac{1}{2}$ "	1.040 lb.
$\frac{1}{8}$ " x $\frac{5}{8}$ "	.289	$\frac{3}{16}$ " x 2"	1.382
$\frac{1}{8}$ " x $\frac{3}{4}$ "	.346	$\frac{3}{16}$ " x $2\frac{1}{2}$ "	1.728
$\frac{1}{8}$ " x 1"	.461	$\frac{3}{16}$ " x 3"	2.075
$\frac{1}{8}$ " x $1\frac{1}{4}$ "	.576	$\frac{1}{4}$ " x $\frac{5}{8}$ "	.576
$\frac{1}{8}$ " x $1\frac{1}{2}$ "	.690	$\frac{1}{4}$ " x $\frac{3}{4}$ "	.691
$\frac{1}{8}$ " x 2"	.921	$\frac{1}{4}$ " x 1"	.921
$\frac{3}{16}$ " x $\frac{1}{2}$ "	.346	$\frac{1}{4}$ " x $1\frac{1}{2}$ "	1.380
$\frac{3}{16}$ " x $\frac{5}{8}$ "	.432	$\frac{1}{4}$ " x 2"	1.842
$\frac{3}{16}$ " x $\frac{3}{4}$ "	.518	$\frac{1}{4}$ " x $2\frac{1}{2}$ "	2.304
$\frac{3}{16}$ " x 1"	.689	$\frac{1}{4}$ " x 3"	2.766
$\frac{3}{16}$ " x $1\frac{1}{4}$ "	.870		

## EXTRUDED BRONZE TEES

Square Root and Square Edge

20 Foot Lengths

	Weight
$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.64 lb.
1" x 1" x $\frac{1}{8}$ "	.89

## EXTRUDED BRONZE ANGLES

Square Root and Square Edge

20 Foot Lengths

	Weight		Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ "	.44 lb.	$\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.42 lb.
1" x $\frac{1}{2}$ " x $\frac{1}{8}$ "	.85	$\frac{5}{8}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	.52
$1\frac{1}{4}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.02	$\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ "	.64
$1\frac{1}{2}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ "	1.15	1" x 1" x $\frac{1}{8}$ "	.89
2" x $\frac{3}{4}$ " x $\frac{1}{8}$ "	1.47	$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x $\frac{1}{8}$ "	1.09
$2\frac{1}{4}$ " x $\frac{7}{8}$ " x $\frac{1}{8}$ "	1.75	$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{1}{8}$ "	1.35
		2" x 2" x $\frac{1}{8}$ "	1.79

# SQUARE AND RECTANGULAR TUBING

Matches the color of extruded Bronze Rods, Shapes, Mouldings, etc.

## RICH LOW BRASS SQUARE TUBING

Sharp Corners

16 Foot Lengths

	Weight
$\frac{1}{2}$ " x $\frac{1}{2}$ " x .065"	.43 lb.
$\frac{5}{8}$ " x $\frac{5}{8}$ " x .065"	.55
$\frac{3}{4}$ " x $\frac{3}{4}$ " x .065"	.68
1" x 1" x .065"	.92
$1\frac{1}{4}$ " x $1\frac{1}{4}$ " x .083"	1.46
$1\frac{1}{2}$ " x $1\frac{1}{2}$ " x .083"	1.79
2" x 2" x .083"	2.53

## RICH LOW BRASS RECTANGULAR TUBING

Sharp Corners

16 Foot Lengths

	Weight
2" x 1" x .083"	1.78 lb.
$2\frac{1}{2}$ " x $1\frac{1}{4}$ " x .083"	2.15
3" x $1\frac{1}{2}$ " x .083"	2.68
3" x 2" x .083"	3.05

## RICH LOW BRASS HALF ROUND

12 Foot Lengths

$\frac{1}{4}$ " x $\frac{1}{8}$ "	.10 lb.
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For Bronze Mouldings, see pages 83, 84, 86

For Bronze Handrails, see pages 9, 10

For Bronze Saddles, see pages 49 to 61

Bronze and Brass Rods, Shapes and Tubing can be furnished cut to specified lengths.



# ORNAMENTS

•

THE ornaments shown in this section represent only a small portion of our stock in this line. For additional illustrations of pressed steel leaves, rosettes, husks, candle pans and mouldings, write for our catalogue "Ornaments."

We also have a considerable stock of forged wrought iron ornaments which we have not been able to catalogue. If you will submit sketches of your requirements, we will be pleased to submit samples for your approval.

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## Subjects covered in this section:

	Page No.
Applied Designs, Cast Iron.....	96, 97
Balls and Rivets, Steel.....	104
Cups and Husks, Pressed Steel.....	102
Leaves, Pressed Steel .....	99, 100, 101
Mouldings, Pressed Steel .....	99
Nails, Forged Ornamental .....	103
Pickets, Drop Forged .....	105
Rosettes, Cast Iron, Bronze, Aluminum.....	98
Rosettes, Pressed Steel .....	98, 99, 100

# APPLIED DESIGNS

Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6210



No. 6211



No. 6212



No. 6213



No. 6214

Illustrations are ONE-THIRD actual size



# APPLIED DESIGNS

Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6215



No. 6216



No. 6217



No. 6218



No. 6219

Illustrations are ONE-THIRD actual size

# ROSETTES

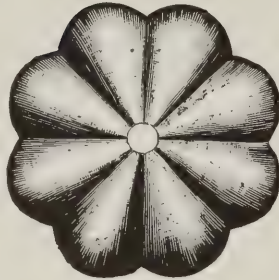
Illustrations are *not* actual size

Cast Iron  
Polished Bronze  
Polished Aluminum



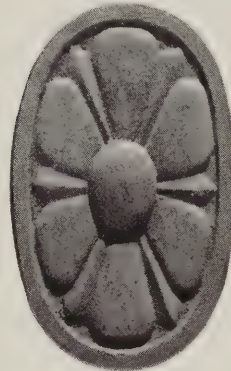
No. 554  
2 3/4" dia.

PRESSED STEEL



1", 1 1/4", 1 1/2",  
2" or 3" dia.

Cast Iron—Polished Bronze  
Polished Aluminum



No. 553  
3 3/4" x 2 1/4" oval

Cast Iron  
Polished Bronze  
Polished Aluminum



No. 6201  
1 7/8" dia.

Cast Iron



No. 6203  
1 3/4" dia.



Cast Iron  
No. 6202—3" long, 1 7/8" wide

## SMALL PRESSED STEEL ROSETTES

Shown one half actual size



M-501  
7/8" dia.



M-502  
1" dia.



M-503  
7/8" dia.



M-504  
7/8" dia.



M-505  
7/8" wide



M-506  
7/8" wide



M-507  
1 1/8" dia.



M-508  
1 1/8" dia.



M-509  
1 1/4" dia.



M-510  
1 1/4" dia.



M-511  
1" wide



M-512  
1 1/4" wide



M-513  
1 1/2" dia.



M-514  
1 1/2" dia.



M-515  
1 3/8" dia.



M-516  
1 3/8" dia.



M-517  
1 1/4" wide



M-518  
1 1/8" wide



M-519  
1 1/4" dia.



M-520  
1 1/4" wide



M-521  
1 1/2" wide



M-522  
1 1/2" wide



M-523  
1 3/4" wide



M-524  
1 3/8" wide

It is not possible to show here all the Rosettes, Leaves, Cups, Husks, Candle Pans, Pressed Mouldings, etc. which we carry in stock. For more complete information write for our catalogue "Ornaments" or submit sketches with dimensions of ornaments you require.



## PRESSED STEEL ROSETTES



M-601  
Width 2 1/4"



M-602  
Width 2 5/8"



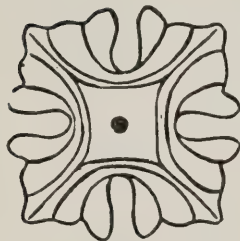
M-603  
Width 2 5/8"



M-604  
Width 2 5/8"



M-605  
Width 2 1/2"



M-607  
Width 3 3/8"



M-608  
Length 4 3/8"  
Width 3 1/4"



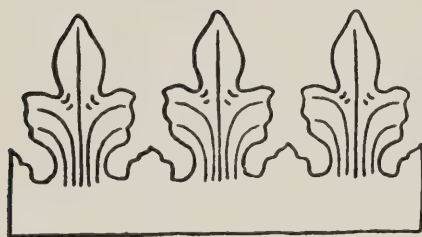
M-609  
Width 2 5/8"



M-610  
Width 3 1/2"

## PRESSED STEEL MOULDINGS

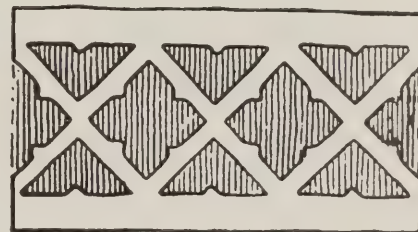
Furnished in 6 foot lengths



M-854  
Width 3 3/8"



M-852  
Width 2 1/2"



M-856  
Width 3 3/8"

## ROSE PARTS AND ROSE LEAVES



M-1101  
Width 1 1/8"



M-1102  
Width 1 3/8"



M-1103  
Width 2"



M-1104  
Width 2 1/8"



M-1105  
Width 2"



M-1124  
Width 1"  
Length 1 5/8"



M-1126  
Width 3/4"  
Length 3 1/4"



M-1127  
Width 1 1/8"  
Length 3 3/8"



M-1128  
Width 1 3/8"  
Length 3 3/8"

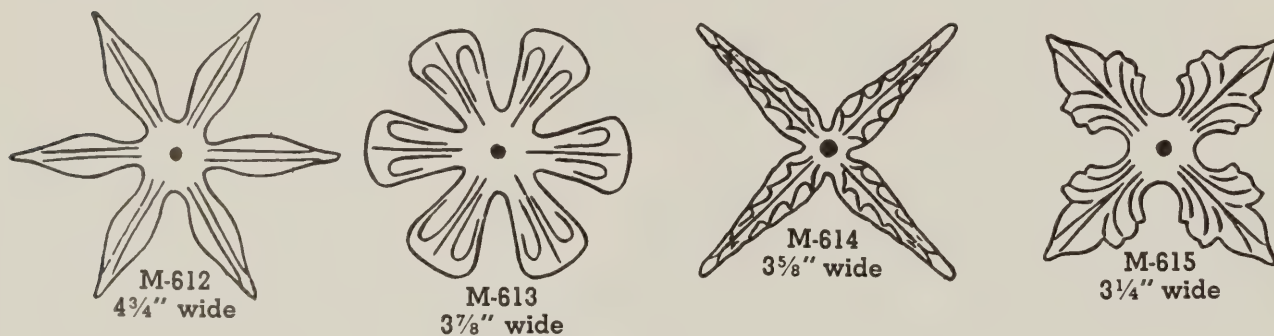
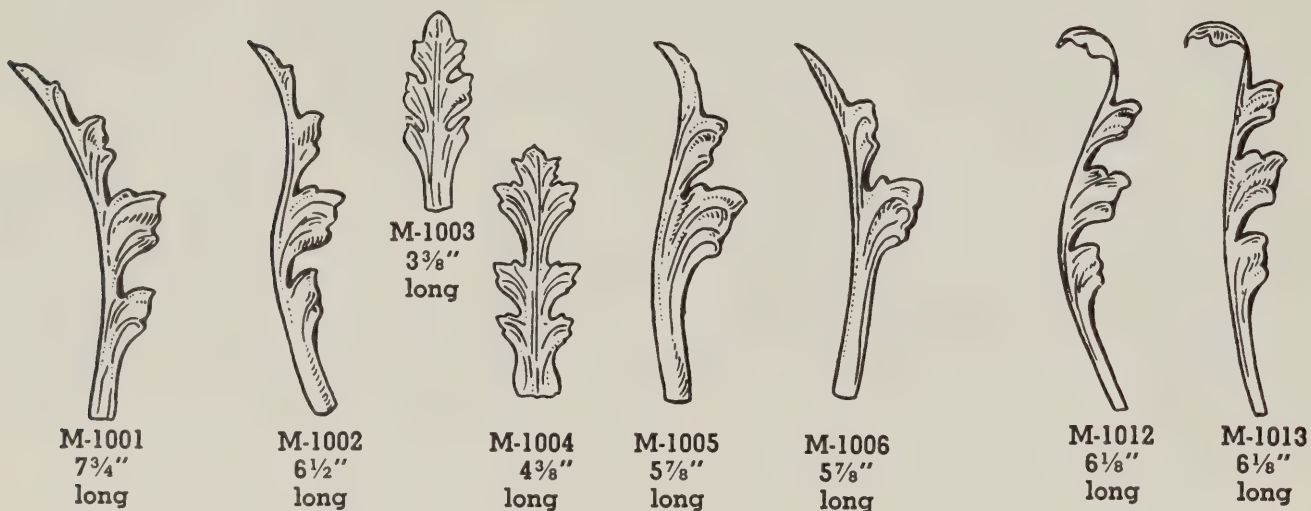
Illustrations are  
about one third  
actual size.

For additional stock  
designs, write for  
special catalog  
"Ornaments."



Typical example of  
roses and flowers  
which may be  
assembled from  
pressed steel  
ornaments.

# PRESSED STEEL ACANTHUS LEAVES AND ROSETTES



For additional stock  
designs, write for  
special catalogue  
"Ornaments."

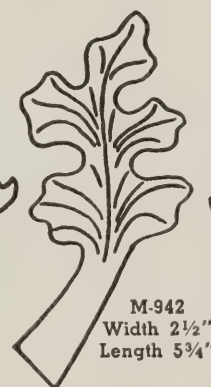
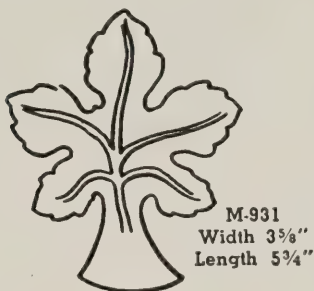
Illustrations are about  
one-third actual size.



# GRAPE, OAK, MAPLE and WATER LEAVES

For additional stock designs, write  
for special catalogue "Ornaments"

Illustrations are about  
one-third actual size.



# CUPS, HUSKS and SOCKET COVERS



M-701  
Width  $1\frac{5}{8}$ "  
Height 1"



M-702  
Width  $1\frac{1}{2}$ "  
Height  $1\frac{3}{8}$ "



M-703  
Width  $1\frac{1}{2}$ "  
Height  $1\frac{1}{8}$ "



M-704  
Width  $1\frac{1}{2}$ "  
Height  $1\frac{1}{2}$ "



M-705  
Width 2"  
Height  $1\frac{1}{8}$ "



M-706  
Width  $1\frac{7}{8}$ "  
Height  $1\frac{7}{8}$ "



M-707  
Width 3"  
Height  $1\frac{3}{4}$ "



M-708  
Width  $1\frac{7}{8}$ "  
Height  $1\frac{1}{8}$ "



M-709  
Width 2"  
Height  $1\frac{1}{2}$ "



M-710  
Width 2"  
Height  $2\frac{1}{8}$ "



M-711  
Width  $2\frac{1}{4}$ "  
Height  $1\frac{3}{4}$ "



M-712  
Width 2"  
Height 2"



M-713  
Width  $2\frac{1}{8}$ "  
Height 2"



M-714  
Width  $2\frac{3}{8}$ "  
Height  $1\frac{3}{8}$ "



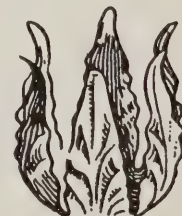
M-715  
Width  $2\frac{1}{2}$ "  
Height  $2\frac{1}{2}$ "



M-716  
Width  $2\frac{3}{4}$ "  
Height  $2\frac{3}{8}$ "



M-717  
Width  $3\frac{1}{8}$ "  
Height  $3\frac{3}{4}$ "



M-718  
Width 2"  
Height  $2\frac{1}{4}$ "



M-719  
Width  $3\frac{1}{4}$ "  
Height  $5\frac{1}{4}$ "



M-720  
Width  $1\frac{5}{8}$ "  
Height  $2\frac{7}{8}$ "



M-721  
Width  $2\frac{5}{8}$ "  
Height  $2\frac{1}{4}$ "

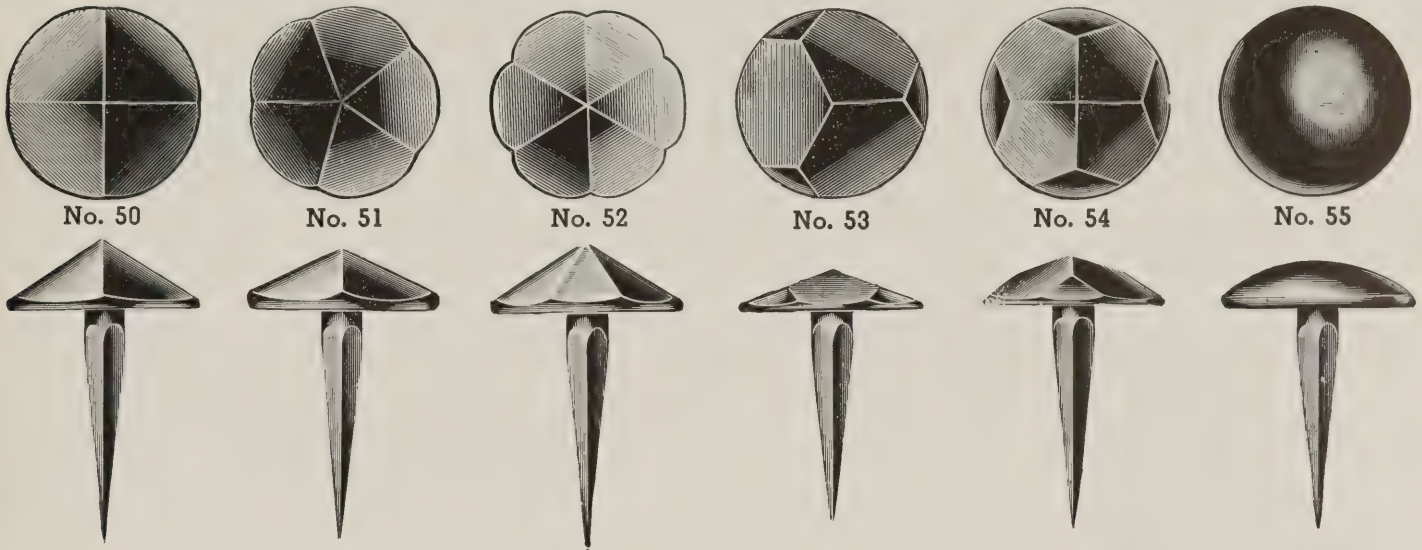
For additional stock designs, write for special catalogue "Ornaments"

Illustrations are about one-third actual size.



# FORGED WROUGHT IRON ORNAMENTAL NAILS

Illustrations Show Top and Side View



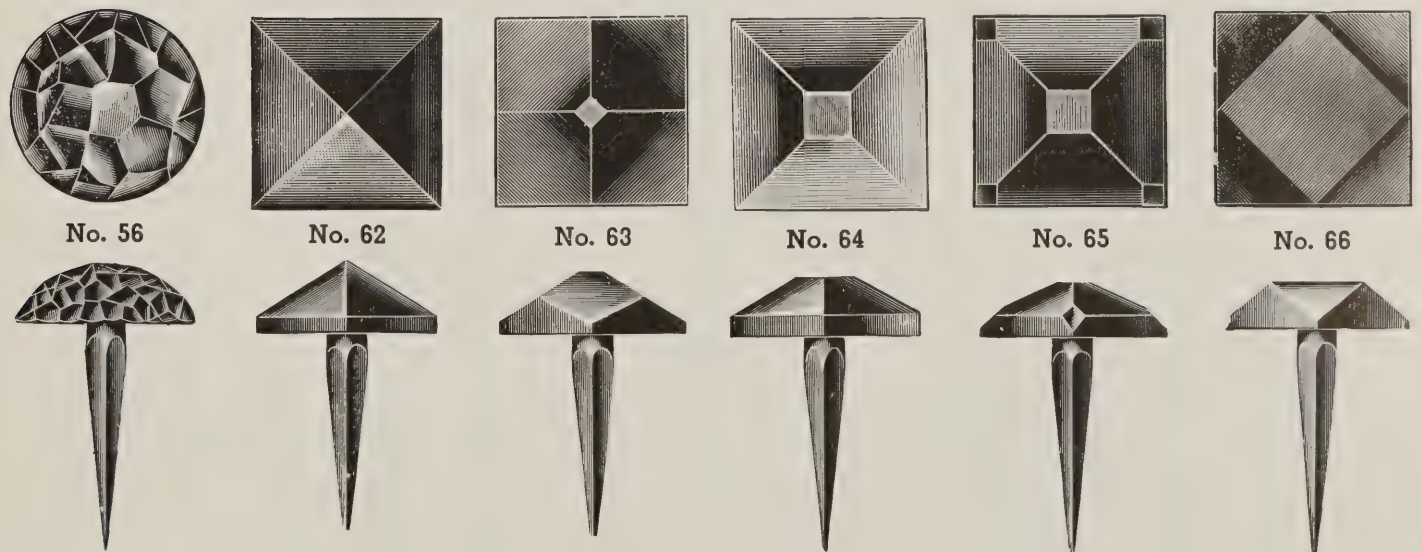
All Numbers are Carried in Stock in Sizes:

$\frac{3}{8}$ "  $\frac{1}{2}$ "  $\frac{5}{8}$ "  $\frac{3}{4}$ "  $\frac{7}{8}$ " 1"  $1\frac{1}{8}$ "  $1\frac{3}{16}$ "

The length of the point, depending on size of the head, ranges from  $\frac{3}{4}$ " to  $1\frac{3}{8}$ "

**ILLUSTRATIONS ARE NOT ACTUAL SIZE**

When ordering please state number and size wanted



FORGED WROUGHT IRON NAILS are furnished with natural hand-hammered finish. They may be used advantageously for studding church doors, wooden chests, furniture, trim, hinge bands and other hardware.

FORGED WROUGHT IRON NAILS are also used for other decorative purposes such as forming rosettes in corners or panels, for fancy rivets on lighting fixtures, mirrors, tables, chairs, fireplaces, display fixtures, etc.

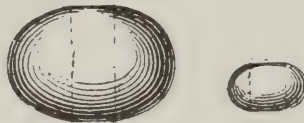
# ORNAMENTAL BALLS (with Drilled Holes)

## ROUND BALLS



No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅓" dia.
0	—1" dia.
1	—¾" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—⅝" dia.
42	—¼" dia.

## OVAL BALLS



No.	Size
111	—1" x ⅝"
110	—⅞" x 9/16"
109	—¾" x 7/16"
108	—⅝" x 7/16"
107	—½" x 5/16"
106	—⅜" x ¼"

## OVAL BALLS WITH SHOULDER



No.	Size
70	—1" x ⅝"
71	—¾" x ½"

## HALF ROUND BALLS



No.	Size
26	—1"
27	—⅞"
28	—¾"
13	—⅝"
14	—9/16"
15	—½"
16	—7/16"

# ORNAMENTAL RIVETS

## ROUND



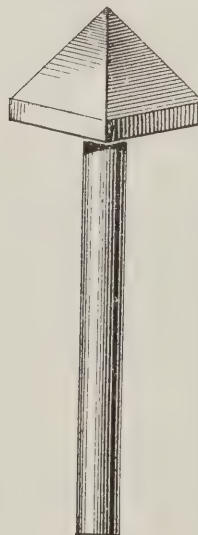
No.	Size
00000	—1½" dia.
0000	—1⅜" dia.
000	—1¼" dia.
00	—1⅓" dia.
0	—1" dia.
1	—¾" dia.
2	—¾" dia.
3	—⅝" dia.
4	—½" dia.
5	—⅜" dia.
41	—⅝" dia.
42	—¼" dia.

## OVAL



No.	Size
111	—1" x ⅝"
110	—⅞" x 9/16"
109	—¾" x 7/16"
108	—⅝" x 7/16"
107	—½" x 5/16"
106	—⅜" x ¼"

## PYRAMID



No.	Size
18	—1"
19	—¾"
20	—⅝"
21	—½"

## HALF ROUND



No.	Size
26	—1"
27	—⅞"
28	—¾"
13	—⅝"
15	—½"
16	—7/16"










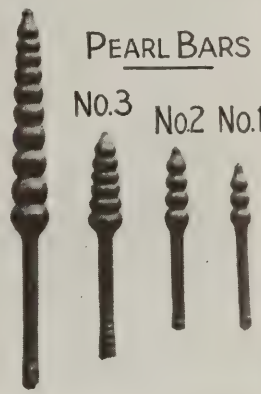




## CONE



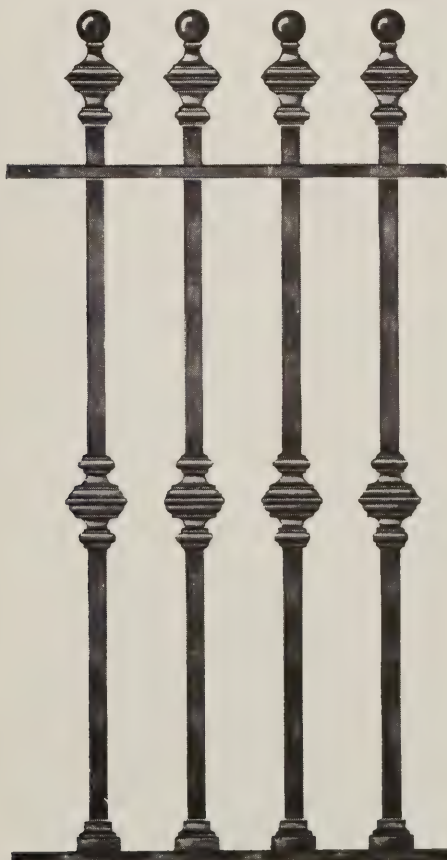
No.	Size
29	—1"
30	—⅞"
10	—9/16"



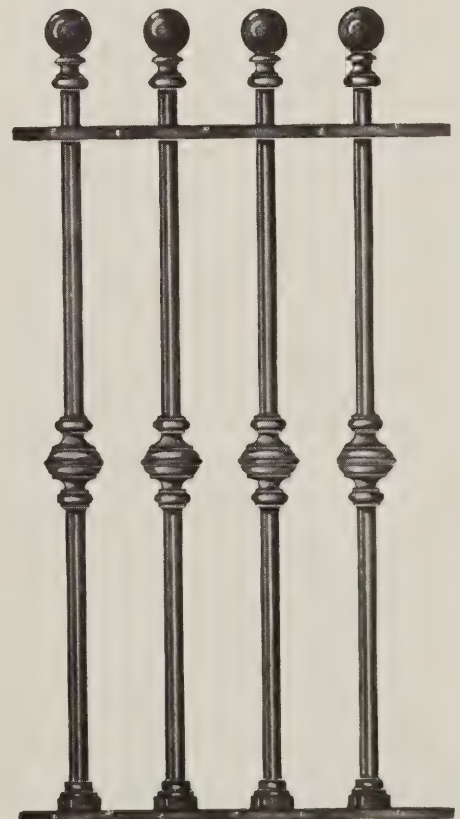
# FORGED WROUGHT IRON PICKETS

 <p><b>No. 2</b>  <math>\frac{5}{8}</math>" round  <math>\frac{3}{4}</math>" round  1" round  shank</p>	 <p><b>No. 4</b>  <math>\frac{7}{16}</math>" round  <math>\frac{1}{2}</math>" round  <math>\frac{5}{8}</math>" round  shank</p>	 <p><b>No. 12</b>  <math>\frac{7}{16}</math>" round  <math>\frac{3}{4}</math>" round  shank</p>	 <p><b>No. 24</b>  <math>\frac{5}{8}</math>" round  shank</p>	 <p><b>No. 35</b>  <math>\frac{3}{8}</math>" round  shank</p>
 <p><b>No. 54</b>  <math>\frac{7}{16}</math>" square  <math>\frac{3}{4}</math>" square  shank</p>	 <p><b>No. 59</b>  <math>\frac{1}{2}</math>" round  <math>\frac{5}{8}</math>" round  <math>\frac{7}{16}</math>" square  <math>\frac{1}{2}</math>" square  shank</p>	 <p><b>No. 68</b>  <math>1\frac{1}{2}</math>" square  shank</p>	 <p><b>No. 86</b>  <math>\frac{7}{16}</math>" square  <math>\frac{1}{2}</math>" square  <math>\frac{5}{8}</math>" square  <math>\frac{3}{4}</math>" square  shank</p>	<p><b>No. 4</b>  <u>PEARL BARS</u>  <b>No. 3</b> <b>No. 2</b> <b>No. 1</b></p>  <p>Shown <math>\frac{1}{4}</math> actual size</p>
 <p><b>No. 87</b>  <math>\frac{1}{2}</math>" square  <math>\frac{5}{8}</math>" square  <math>\frac{3}{4}</math>" square  shank</p>	 <p><b>No. 88</b>  <math>\frac{1}{2}</math>" round  <math>\frac{5}{8}</math>" round  <math>\frac{3}{4}</math>" round  shank</p>	 <p><b>No. 89</b>  <math>\frac{5}{8}</math>" square  shank</p>	 <p><b>No. 207</b>  <math>1\frac{1}{4}</math>" square  shank</p>	

Will be discontinued when our present stock is exhausted.



Detail  
showing  
Forged Pickets  
used for  
window  
guards.



# MISCELLANEOUS



## Subjects covered in this section:

	Page No.
Hardware for Doors	
Butts, Hinges, Flush Bolts .....	108
Locks, Door Handles .....	109
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Metal Working Machinery .....	110
Single End Punching Machine .....	111
Lifting Clamps .....	110
Band Saw Blades .....	110
Soapstone Crayons .....	110

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For more detailed information write for our special catalogues  
"Plastics" and "Metal Working Machinery."





# TULOX

## TRANSPARENT CONTAINERS

*A perfect container  
for Filing and Storing*

**BLUE PRINTS • MAPS  
TRACINGS • CHARTS  
WIRING DIAGRAMS**

**TULOX Transparent Plastic Containers** are made from cellulose acetate butyrate (trade name Tenite II) the same plastic material as used for Tulox TT Transparent Plastic Tubing. Many industrial organizations, shipyards, public utilities, architects, transportation companies, etc., now use them as standard equipment.

**QUALITY CONSTRUCTION**—Body of the container is made of Tulox TT Transparent Plastic Tubing with a welded bottom end of the same plastic material. Top end is fitted with sturdy removable plug made of black synthetic rubber.

**WATER AND AIR TIGHT**—Rubber cap fits so snugly that contents are safely sealed from damage by water, dust or humid air.

**NON-SHATTERABLE**—The body of the container is rigid with enough give to absorb shock. It will not chip, rust, warp or break.

**LIGHTWEIGHT** — In spite of their rugged strength, TULOX Transparent Containers are

very light; only 12 ounces for the 43" long, 2" diameter size.

**WIDE RANGE OF STOCK SIZES**—There are six standard lengths ranging from 25" to 55" overall, available in outside diameters of 1 $\frac{5}{8}$ ", 2" and 2 $\frac{1}{2}$ ". Special sizes can be made to order in any length from 12 inches to 12 feet.

### LIST OF STOCK SIZES

All lengths available in outside diameters of 1 $\frac{5}{8}$ ", 2" and 2 $\frac{1}{2}$ ".

INSIDE LENGTH	OUTSIDE LENGTH
24"	25"
36"	37"
38"	39"
42"	43"
48"	49"
54"	55"

When ordering be sure to specify both inside length and outside diameter.

# HEAVY DUTY HINGES AND BUTTS

Blank—without screw holes

## BALL BEARING HINGES

Wrought Steel

No. BB851 Extra Heavy

No. BB850 Medium

Bronze

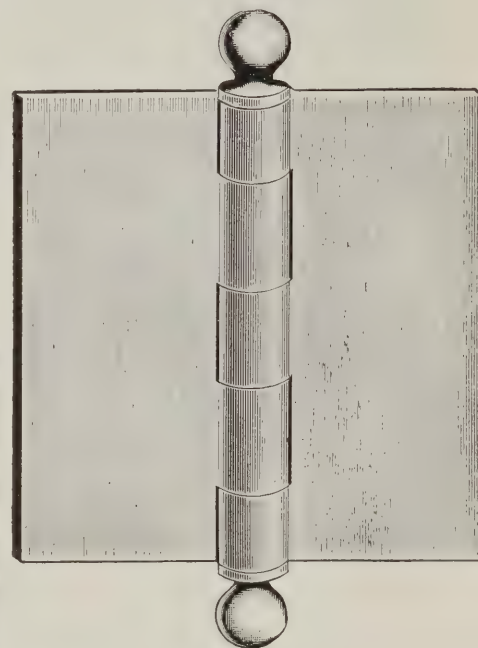
No. BB180A



## LOOSE PIN BUTTS

Wrought Steel

No. NH823

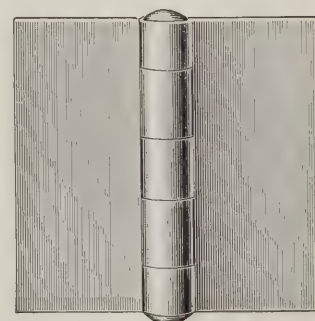


Stock sizes

2" x 2"	.082" gauge
2½" x 2½"	.089" "
3" x 3"	.092" "
3½" x 3½"	.123" "
4" x 4"	.130" "

## FULL SURFACE HINGES

Tight Pin—No. 850



Stock sizes

3" x 3"	.130" gauge
4" x 4"	.160" "
5" x 5"	.180" "

## BALL BEARING HINGES

Wrought Steel

Wrought Steel  
Flush Bolts

9" long

Bolt has 1" throw, is  
¾" square and has  
1⅜" lip extension.  
Front plate 1" wide.

Extra Heavy

4" x 4"	.170" gauge
4½" x 4½"	.180" "
5" x 5"	.190" "
6" x 6"	.203" "
8" x 8"	.203" "

Medium

6" x 5"	.160" gauge
6" x 6"	.160" "
Bronze	
4" x 4"	.130" gauge
5" x 5"	.146" "

Hinges are equipped with ball bearing washers which prevent wear and insure easy and quiet operation. All Butts and Hinges furnished blank, without screw holes.

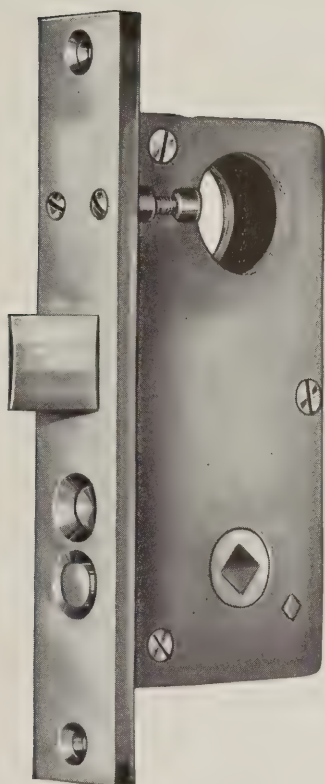
**JULIUS BLUM & CO., INC.**

532-540 WEST 22nd ST.

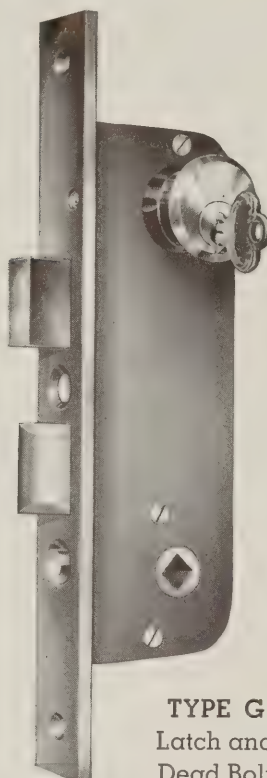
NEW YORK 11, N. Y.



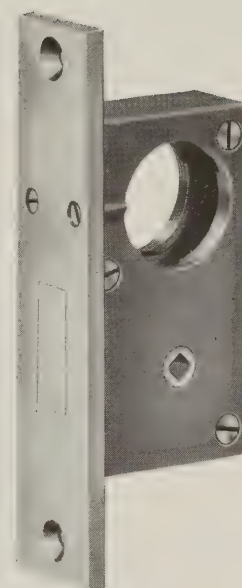
## HEAVY DUTY LOCKS



**TYPE F**  
Latch only



**TYPE G**  
Latch and  
Dead Bolt



**TYPE Q**  
Dead Bolt only

### CYLINDERS FOR LOCKS

Two sizes

1" long

1 1/4" long

**Standard threads**  
Each cylinder furnished with 2 keys.  
When ordering several cylinders, state whether or not they should be keyed alike.

### WHEN ORDERING LOCKS, SPECIFY TYPE AND BACKSET

Type F and Type G locks are reversible for right and left hand doors, opening in or out.  
All locks are furnished in two sizes:

1 1/8" backset, over all depth 1 7/8", for doors with 2" stiles.

1 9/16" backset, over all depth 2 5/8", for doors with 3" or wider stiles.

All locks are threaded on both sides for standard cylinder. Type G and Type Q locks are operated by thumb knob from the inside. Cylinders are not included with locks.

Locks are of sturdy brass construction especially suited for use on vestibule doors, gates, steel partition doors, etc.

## DOOR KNOBS AND LEVER HANDLES



Polished Bronze and Dull Black Malleable Iron

One set consists of:

1 Lever, 1 Knob, 1 Swivel Spindle, 2 Escutcheons

Also sold separately, or in sets of 2 Levers or 2 Knobs.



# METAL WORKING MACHINERY

We are recognized distributors for many nationally known manufacturers of machinery and metal fabricating equipment.

Through many years of close contact with the metal working trade we have acquired a thorough knowledge of the requirements of various types of shops. We are in a position to recommend whatever equipment is best suited for each customer's needs.

The following is a partial list of machinery and tools which we handle and carry in stock.

Anvils	Drills	Rivet Heaters
Benders	Electric Tools	Saws
Brakes	Forges	Shears
Buffers	Grinders	Tappers
Clamps	Hoists	Threaders
Cranes	Notchers	Trolleys
Cutters	Presses	Vises
Dies	Punches	Welders

Please write for our Catalogue "Metal Working Machinery."

## VOLZ DROP FORGED LIFTING CLAMPS

SAFE — STRONG — LIGHT



Capacity	Opening	Weight
1/2 ton	0-5/8"	4 lbs.
1 ton	0-3/4"	9 lbs.
3 tons	0-1"	20 lbs.
6 tons	0-1 1/2"	50 lbs.
	or 1/2"-2"	

Volz Clamps are tested up to 3 times rated capacity.

## METAL WORKERS CRAYONS

Hard clear select white soapstone

1/4" x 1/4" x 5" long

1/2" x 3/8" x 5" long

Packed 144 sticks per carton.

Special discounts for case lots (24 cartons).

## METAL BAND SAW BLADES



Carried in stock welded to size for Marvel, Johnson, Kalamazoo, Wells and Grob Band Saw Machines.

Also furnished in coils for use on die cutting band saws, such as Do-All, Tannewitz, Walker-Turner, Delta and others. Welded Band Saws for all makes furnished on short notice.

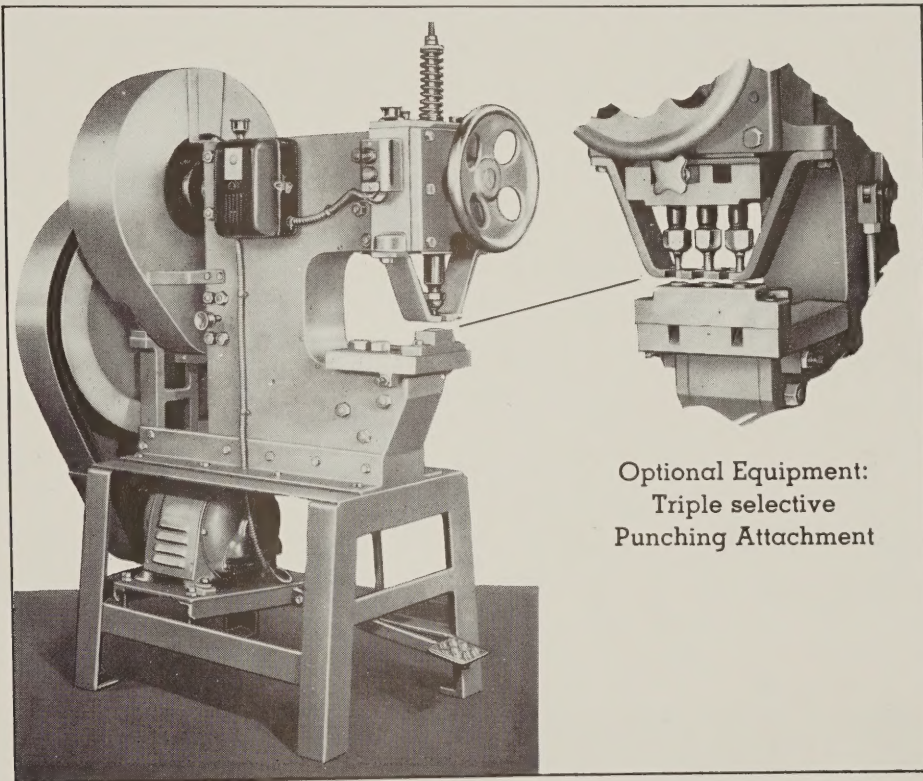


# SINGLE END PUNCHING MACHINE

## MODEL P-9 QUICK ACTING

This machine has been specially designed for light Fabricating of all types, such as Railing, Stair and Fire Escape Work.

Depth of throat and overhanging Die Block make it suitable for punching Web and Flanges of small Beams and Channels.



Optional Equipment:  
Triple selective  
Punching Attachment

### SPECIFICATIONS

Capacity in soft steel.... $9/16''$  through  $1/2''$   
 $3/4''$  through  $3/8''$   
Depth of Throat.....12"  
Strokes per minute.....60  
Motor.....2 H.P. 1800 R.P.M.  
Size of base.....22"x30"  
Size overall.....45"x27"x60" high  
Net Weight, less Motor.....1280 lbs.  
Approx. Shipping Weight .....1400 lbs.

### OPTIONAL EQUIPMENT

Triple Selective Punching Attachment  
Angle Cutting Attachment  
Angle Notching Attachment

### COMPLETE STOCK OF PUNCHES AND DIES

We carry a large stock of punches and dies for all makes of machines, foreign and domestic.



# PLASTIC TUBING • SHEET • ROD SHAPES • PIPE • FITTINGS

## **TULOX TT TUBING**

Forty-one stock sizes  
 $\frac{1}{8}$ " O.D. to  $2\frac{1}{2}$ " O.D.

## **TENITE II SOLID ROD**

Nine stock sizes  
 $\frac{3}{32}$ " dia. to 1" dia.

## **POLYSTYRENE TUBING**

Nine stock sizes  
 $\frac{1}{4}$ " O.D. to 2" O.D.

## **POLYSTYRENE ROD**

Eighteen stock sizes  
 $\frac{1}{8}$ " dia. to 4" dia.

## **POLYSTYRENE SHEET**

Sixteen stock thicknesses  
.0025" to 1.00"

## **PLEXIGLAS SHEET**

Seven stock thicknesses  
.060" to .500"

## **CELLULOSE ACETATE SHEET**

Nine stock thicknesses  
.010" to .500"

## **SARAN TUBING & FITTINGS**

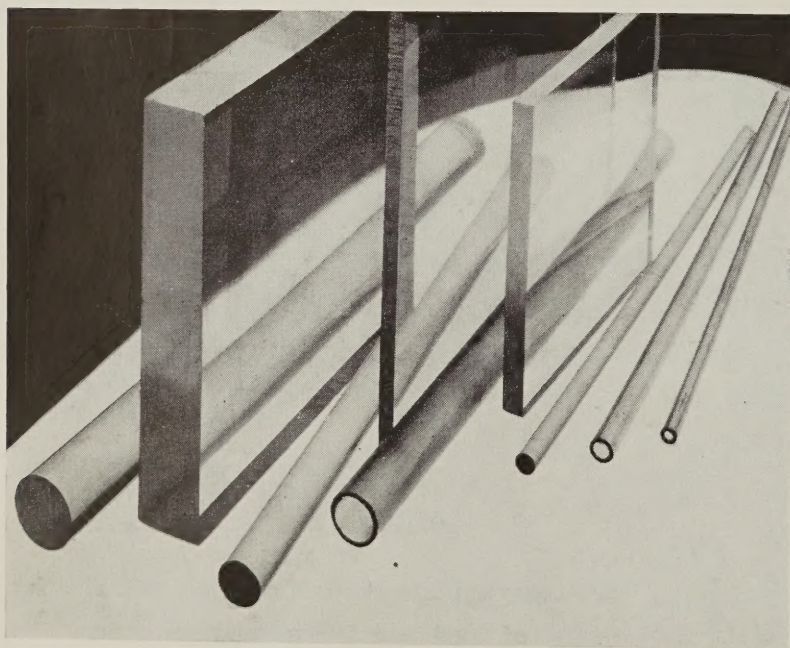
Seventeen stock sizes  
 $\frac{1}{8}$ " O.D. to  $\frac{3}{4}$ " O.D.

## **SARAN PIPE & FITTINGS**

Six stock sizes  
 $\frac{1}{2}$ " I.P.S. to 2" I.P.S.

## **EXTRUDED SHAPES**

Wallboard and glass framing shapes,  
nosings, edgings, tees.



Complete size and price  
schedules with descrip-  
tive literature will be fur-  
nished upon request.







